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STREW AND INTONATION IN RINDI

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I. INTRODUCTION /problems and method/

Hindi. In spite of this we see that the opinions of the certain Indian and foreign authors are very different as regards the judgement of the character of Hindi stress and intonation. This is hown well also by 1.8. is on's article, in which the author quotes five statements from professional literature regarding the character of stress in Hindi, differring from each other.

In choosing my theme I was guided by the endeavour to possibly elaborate such a uniform and comprehensive system, which removes and explains the contrasts to be found in professional literature regarding the subject and which comprises Hindi stress and intonation into a uniform whole.

In my work I have utilized the valuable observations of investigators dealing with the subject previous to me, as well as my own observations and experiments made in India. My statements are based mainly on Hindi as spoken in Banaras, because in my opinion

the Hindi language spoken there has more or less preserved the original phonetic characteristics and singing character of Hindi.

Banaras is situated in the eastern half of the Hindi language territory. It was a centre of Indian culture already about the 11th century 1.0. that is at the time of the development of Hindi. Here met the scientists, philosophers and grammarians of the different regions of the country, as well as the masses of Hindu pilgrims. On account of its central geographical situation it was, on the one hand, the place ' of contact of the various dialects of lindi, and on the other hand it remained rather apart from foreign cultural and linguistic influences, and thus it could preserve more purely the characteristics of the Hindi language, including also the original character of stress and intonation. In this respect Banaras was in a more favourable position than for example Delhi. which became the centre of the Moghul rulers and in respect of the language was strongly influenced by Persian. Later on it was chosen also by the British colonization as their centre. The capital of the country is affected also today by more foreign /especially English/ linguistic influence, while Banaras situated farther to the east is less exposed to this

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influence.

studying the history of the development of the Hindi language, we see that it always had to struggle against the hostile surroundings and foreign political influence. It did not enjoy the support of the rulers. However, being the language of the people and thus having great vitality, it succeeded to overcome the obstacles and to ensure its further levelopment. Practically the whole of the Hindi language territory was in the hands of foreign conquerors. Thus the political and cultural influence had an unfavourable effect on the Hindi language. The Hindu religious movements played a very important part from the viewpoint of counterbalancing the foreign influence. These relied upon the language of the people, strived for clarity and thus they also promoted the spreading of the use of Hindi. Mspecially important is here the role of Banaras as a Hindu cultural and pilgrimage centre. The different eastern and western dialects of Hindi /Kharl Boll, Brajbhasa, Avadhi, Bhojpuri, etc. / also met here and broadened the possibilities of the use of Hindi. In spite of the fact that Banaras is situated in the territory of the Mojpuri dialect. in the city itself the Hindi language, the Hindi literary language is dominating and its influence eradiates also to other parts of the Hindi language ter-

In the course of the centuries several such famous writer; and poets were born, or acted here. whose influence spread practically over the whole territory of India. Such was for example Kabir /born about 1400 A.D./, the great religious reformer, who preached his doctrines not in Sanskrit but in the simple language of the people. He spent a considerable part of his life in Banaras. After his death his Hindu followers were organized by Surat Gopal into an order. whose centre was Banaras. Tulsidas, the famous poet of the 16th century, author of the Ramcaritmanas, the Hindi /Avadhi/ ver ion of the Ramayana, also settled down in Banaras. The Hindi Ramayana has a great influence on the millions of Hindus even today. Bharatendu Hari scandra /1850-1885/, the founder of modern Hindi prose writing, was also born in Banaras and lived there in the last century, just like Jaysankar Prasad /1889-1937/, by whom Hindi play-writing was further developed on European models. Last but not least, Preme and /1880-1936/, the eminent figure of Hindi novel writing, was also born in a village near Banaras.

Banaras, the intellectual capital of India, where the flow of pilgrims streamed throughout the whole year.

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like some other cities of India, developed at the same time also to a great industrial and commercial centre. It became famous especially on account of its silk-textile industry, coppersmith's work, etc. Besides this pilgrimage also contributed to the strengthening of the feeling of national unity.

All these facts promoted the amalgamation of the different dialects, the preservation of the linguistic traditions and thus also the development of Hindi as a connecting language. A Banaras was a Hindu place of pilgrimage, therefore it was visited first of all not by foreigners but by Indians. This circumstance also decreased foreign linguistic influence and contributed to the preservation of the original characteristics of the Hindi language.

The facts enumerated above have justified my decision to base my studies fir t of all on my observations carried on in Banaras.

In my observations I applied the direct method. With the certain experimental persons I carried on conversations on the problem I wanted to clarify, so that the rollies could be concluded from the spontaneous manifestations of the experimental persons. I adopted this method, as I have observed that in case I definitely asked the experimental persons for ex-

ample where the accent is in a given word, immediately doubts arose in them and their answers became uncertain. Therefore, in most of the cases I initiated such conversations in which the problems to be clarified were included without telling this to the experimental persons. Then I tried to check up my observations gained this way in everyday life, in the street. in shops, in the cinema, the theatre, at the university and in society.

To my knowledge, the subject has not yet been discussed in such a detailed and comprehensive - form either in India or outside India, In case I have succeeded in bringing the subject nearer to its final solution, it is due in many respects to my Indian and Hungarian colleagues to whom I extend my gratitude also from this place.

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II. STRESS

O. GENERAL VIEWPOINT

Stress is an important property of language. According to Laziczius2, when we speak about the stress of a language, we must always think about emphasis. because the changing of the strength of the emphasis gives the essence of stress. Classical phonetics differentiates between word stress and sentence stress. This standpoint is represented by Laziczius3/ and by many others. A new conception is followed by L. Deme. when in connection with the Hungarian language he states about word stress that "in reality there is no word stress". 4/ He further states that in the course of Hungarian speech any of the words can be stressed or unstressed. "If a word receives stress in the course of speech, it does not receive it as a word, but as a part of the sentence to which for some reason prominence is given. 5/ The standpoint of L. Deme in connection with word stress is held by us important because, as we shall see later on, we also represent a similar standpoint in connection with Hindi word stress.

The importance of stress is supported by L.Bloomfield's 6/ tatement on the phonemic character of stress. According to him stress is a secondary phoneme. H.A. Grierson, Jr. 7/ draws this conclusion from the examination of the so called minimal pairs of words. In connection with Hindi we only state here that the phonemic character of stress can be pointed out also in Hindi, but its explanation is not exactly the same, what is for example shown in English and German on the basis of the usual examples /English: permit - permit: German: @bersetzen - @bersetzen/.

according to Laziczius and qualitative differences, as well as differences in the pitch level also go together with stress. This is also supported by the acoustic investigations of I. Fonagy on the basis of recordings made by him on the Hungarian, French, Italian, Rumanian, German, Russian and English languages. He states that there is a positive relationship between the stress, on the one hand and loudness, pitch level and length, on the other. Length and pitch level are closely associated with stress also in Hindi. However, it is noted that, while for example in Russian within a word only the stressed syllable is pronounced long and all the other syllables are short, in Hindi every long syllable of the word is pronounced long, whether they are stressed or not.

1. REVIEW OF PROFE JONAL LITERATURE ON STREET IN HINDI

1.1. Syllabification

The problem of the characteristic Hindi stress has been discussed by many investigators, although we can hardly find any work which expounds in detail all problems connected with stress in Hindi.

The opinions of the certain authors agree with each other in many respects, however they frequently arrived also at different and even contrasting conclusions. 10/ One of the reasons for this is that in determining the number of syllables in a certain word they very often did not start out from the spoken language but regarded the characters of the devanagar script, the aksaras, as syllables. This is correct in the Sanskrit language, but not in Hindi. In fact, in Hindi the inherent a /usually pronounced 3/, which is to be pronounced after the certain consonant aksaras without any further marking, frequently is silent at the end of the words and also inside the words. Thus the number of the aksaras does not always correspond to the number of syllables.

The authors of the recently published more important works already observe more or less the reduction or elision of the inherent a /2/ and the even-

tual changes of the stress resulting from this.

However, there still occur such explanations which - especially for those whose mother tongue is not Hindi - disturb the syllabification and the establishment of stress. Thus for example, according to Kamtaprasad Guru11/ the consonant preceding a reduced a is pronounced somewhat longer and if at the word end there is a reduced a, then stress falls on the penultimate syllable. E.g. in the words ER /thar/ 'house', 2575 /jhar/ 'bush', (st /sarak/ 'road', etc. Even these examples show that Kamtaprasad Guru also belongs among those authors, who in certain cases identify the aksaras with the syllables. It can be found with him and with several other Indian authors that they regard two such words as one word, which are apparently to be regarded as separate words, and they draw conclusions concerning the number of syllables from the words thus written together. Such words are for example offerd /bolkar/ having spoken' and दिनगर /dinbhar/ 'the whole day'. The जोलकर correctly and and analytically formed absolutive, viz. root of the verb and /bolna/ 'to speak' + the root of the verb 41/ /karna/ 'to do', 'to make, 12/; and the 14-147 is correctly दिन भर , where the दिन 'day' is a noun and the

Try whole' is an adverb. Thus the explanation, according to which in the above two examples the inherent a falls out inside of the word, that is from the end of the word and the two phrases stressed, is not correct either. In reality, in both cases the first element is a separate word and thus the inherent a falls out from the word endings and not inside of the words. In this case the establishment of the place of stress is correct, but the explanation given to it is not correct.

an interesting explanation is given to the syllabification of the words by S.G. Rudin, 13/ who deals with the problem of stress in Hindustani /Hindi/more thoroughly. Rudin, while underlining on the one hand that there is a difference between "syllable" according to our conception and aksara according to the Indian conception. 14/ arrives at the conclusion that the terminal consonant of a closed syllable forms a separate syllable with the reduced inherent a following it, because the reduced a never disappears entirely in the pronunciation. 15/ According to him in such cases there is no difference between syllabification and division according to aksaras. In my opinion Rudin's observation is inasmuch correct as in

certain cases the terminal reduced inherent a can really be heard very slightly in the pronunciation. but this reduced a does not form a separate syllable with the consonant preceding it.

1.2. Character of Stress in Hindi

As we have already mentioned, the most diverse and sometimes contrasting views have come to light as regards the character of stress in Hindi /Hindustani. Urdu/. S.N. Kellog 16/ in his detailed Hindi Grammar deals only briefly with the question of stress. According to him stress in Hindi is much weaker than in English and it has a quite subordinate role in comparison with length. In his opinion in Hindi every syllable is pronounced with the proper length, that is the long syllable is pronounced long even if it is unstressed. From the short definition of H.C. Scholberg 17/ we can conclude that stress in Hindi is brought by him into connection with the interference of foreign languages. According to a considerable part of the more recent authors 18/ there is stress accent in Hindi, but the character of it is explained by them in different ways. In general they agree in the point that stress in Hindi /Hindustani/ is not as distinct as for example in English. 19/ The investigators also emphasize that unstressed vowels, if they are long, must be pronounced as long and as distinct as the stressed ones, 20/

a general rule only one syllable in a word is accented." The explanations of H.C. Scholberg 22/ and V. Porizka 23/ in an implicit form are already near to the assumption of several stresses. And according to 1.G. Rudin 24/ in certain exceptional cases there is also secondary stress.

1.3. The Place of Ctress

As the majority of the authors, in an explicit or implicit form, assume the existence of only one stress in a word, it would be necessary to establish the place of word stress.

In this question Rudin, as it is stated by himself, follows the views of G.A. Grierson. Kamtaprasad Guru, T.Grahame Bailey, E. Greaves and T.W. Fallon. 25/
He mentions as a general rule that each word consisting of more than one syllable has accent, and sentence stress can also fall on a monosyllabic word. This stress is permanent, it does not change its place with the change of the phonetic form of the word, or in case suffixes, formative syllables, postpocitions, etc. are added to it. In this connection Rudin's examples are as follows: 'jana 'to go', 'jakar 'having gone', 'jau 'I should go', 'jauga 'I shall go', la 'pai 'war'.

la raiya 'wars', la raio me 'in wars', etc. If the last syllable of the disyllabic word is a reduced short a. then stress always falls on the first syllable. E.g. 'tat 'shore', 'rat 'night', 'sattya 'truth', etc. Here Rudin starts out from the number of aksaras in establishing the number of syllables. Kamtaprasad Guru26/ and Dhirendra Varma27/ are of similar opinion. Of the difficulties in the establishment of the place of stress caused by the syllabification starting out from the aksaras, characteristic is the case when stress falls on the last syllable. According to the BGMH28/ the last syllable can be stressed only if it is the only long syllable in the word, Rudin, on the other hand. mentions also several such words, in which the last syllable can also be stressed. These are mentioned by him as exceptional cases. According to him such are the disyllabic absolutives and imperatives of the causative verbs, e.g. ba na 'made', 'make', su na 'told'. 'tell'. etc.. as well as the negative particle na'hi 'not', and the following adverbs of place: ya ha 'here, hither', va ha 'there', ka ha 'where?'. ja ha 'where', etc. Rudin also mentions a few such words in which, in our opinion, the stressed syllable is the last /second/ syllable, viz.: ki san 'peasant', vi'car 'idea'. Eince, however, he identifies the

number of syllables with the number of aksaras also here, he holds these words trisyllabic /ki-sa-n^a, vi-ca-r^a/ and thus according to him the stress is not on the last syllable but on the penultimate syllable.

According to the majority of the authors the place of stress in Hindi is unfixed, not like in French where stress is on the final syllable, or in Hungarian where stress is on the first syllable of the word. However, it is mentioned by several authors that the verbal roots in Hindi are always stressed, regardless of the changes of the phonetic form of the verb. This is the view of A.P. Barannikov - P.A. Barannikov. 30/ who mention the following examples to support their opinion: jana 'to go', karega 'he will do', sunta 'hearing', mara 'beaten', bolnevala 'speaking, speaker'. In their opinion, if the verbal root is disyllabic or polysyllabic, then stress is on the final syllable of the verbal root, e.g. sunana 'to cause to hear, to tell' /causative form of sunna 'to hear'/, pahuncana 'to take' /causative form of pahuncha 'to arrive'/.

S.G. Rudin³¹ is also of the same opinion, but he generalizes even more when he says that in Hindustani /Hindi/ the place of word stress is <u>fixed</u>, that is the place of stress usually does not change, if to the word New Indian grammatical suffixes, diminutive

suffixes, or postpositions are added, e.g. 'jana'to go', 'jakar 'having gone', 'jau 'I should go', 'jauga' 'I shall go', la'rai 'war', 'titali 'butterfly', 'titaliya 'small butterfly'.

according to V. Porizka 32/ the certain forms of the deverbative verbs /verbs formed from verbs/ are distinguished by stress from the verbal forms with identical phonetic forms of those verbs from which the devertative verbs were formed. E.g. aml cala /ca/1a/ 'having driven' /e.g. a car/ and worll cala / cala/ 'gone'; '/he/ went'. In our opinion it would be more correct to explain this with the general rule, according to which in the case of the verbs the stress is always on the verbal root, and if - as in the present case - we have to do with a deverbative verb which has a disyllabic root, then the stress falls on the second syllable of the verbal root. Thus the first cala is a verbal root, while the second cala is a past participle. This explanation applies to the whole verbal system.

ean also be found with Kamtaprasad Guru, and Dhirendra

Varma

R.C. Mellrotia 33/

1.4. Historical Aspects of Stress

John Beames 34/ writes about the historical aspects of stress and in this respect he compares Hindi and the other Aryan languages of Northern India with the Romance languages. According to him it can be observed that in the Romance languages, for example in French, stress is very often on the same syllable as it had been originally in Latin. On the analogy of this Beames gives an interesting explanation of early and later tadbhava words in Hindi. He mentions that in Hindi the tadbhava equivalent of the Sanskrit oxytone word & /ksura/ 'knife' is Et /chura/. which is also oxytone, while on the other hand, the Hindi tadbhava equivalent of the word किंत /keetra/ 'field', which is also oxytone in Sanskrit, is रवेत् /khet/. Here the originally stressed final vovel is dropped and the word ends in a consonant. According to Beames in the first case we have to do with an early tadbhava and in the second case with a late tadbhava, 35/

the conception of Beames, according to which in the old adoptions of words the stress was preserved in its original place, is supported by anford A.

The compares the stress relations of such words which in certain

dialects End in schwa and in literary French in a consonant. In accordance with the general rule within the word stress is placed in all cases on the last pronounced vowel, e.g. petit /pət'i/, petite /pət'it/, naturel /natyr'£1/, naturelle /natyr'£1/. In those lialects in which final schwas are pronounced, the stress falls on the penultimate syllable, e.g. /pət'i/,

/pat/ita/, /natyr/ɛl/, /natyr/ɛla/. This also shows that the street to possibly remain on the originally stressed syllable quite apart from the fact whether this is the last or the penultimate pronounced syllable. According to chane many of the phonological changes are a consequence of stress. This can be seen also in one of the examples mentioned by Beames in which the Hindi tadbhava equivalent /chura/ of the Canskrit word ksura preserved its terminal vowel exactly as a result of the end stress. At the same time the terminal short a became long /a > a/, because otherwise according to the phonetical rules of Hindi it ought to have become silent.

Beames also touches the development of the formative syllable a of the Hindi causal verbs, however he does not explain the character of stress in Modern Hindi.

1.5. Observations on Stress in Hindi Resulting from the Survey of Literature

that the authors deal in general with word stress in Hindi, while sentence stress is almost entirely discregarded by them. Sentence stress appears only in the works of V.A. Chernyshev and R.C. Mehrotra. However, Chernyshev does not define the place of stress in the word to which prominence is given, he only defines the place of the word to which prominence is given in the sentence.

The majority of the authors state in an explicit or implicit form that there is only one stress in a word, that is only one syllable of the word is stressed. An exception is 1.6. Rudin, according to whom in certain exceptional cases secondary stress can also exist, as well as H.C. Scholberg and V. Porizka, whose explanations are already near to the assumption of several stresses.

No uniform opinion has been formed about the definition of the place of stress either. Here it is
disturbing that part of the authors identify the syllables in general with the aksaras and thus they freshow,
quently more syllables in the certain words than the
number of syllables to be established on the basis of

of the stress is mentioned by almost all authors in some form. However, only R.C. Mehrotra deals with this ubject in the framework of the sentence.

Summing up the aboves, on the basis of literature we cannot form a uniform picture on stress in Hindi or on its place and function in the sentence.

2. WORD STRESS OR THE PHONETIC BASIS

2.1. There is no Separate Word Stress in Hindi

As we have seen, the authors reviewed in general have observed that there is something in Hindi stress what is difficult to grasp and what differs from the stress system of the European languages known to us. The linguists and grammarians tried to approach this question in different ways.

On the basis of my experiments and observations carried on in the Hindi language territory, I have arrived at the conclusion that in Hindi words not only one but also more syllables can be stressed. This stress on the different syllables can be of equal or of different strength, as a result of which the Hindi words show a certain fluctuation in regard to stress.

As we have already mentioned, Scholberg 40/ very likely

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hints at this when he says: "Rising and falling inflections are much less marked than in foreign languages. In Hindi quantity is rather to be observed than accent." V. Porizka's 41/ remark also refers to this:

"a/ It is wrong to place strong accent on one syllable while articulating other syllables indistinctly."

with individual stress, but rather with the alternation of the relative strength of stress, and the Hindi words in speech appear as the complex of relative differences of emphasis. It is caused exactly by this fluctuation or pulsation that word stress in Hindi can be heared only indistinctly and that there is a more distinct stress only on that word which, as a result of prominence or in the case of sentences consisting of one word, is the vehicle of the sentence stress.

The frequently contradictory statements found in professional literature regarding word stress in Hindi can very likely be explained also with this characteristic.

Starting out from the above consideration, in my opinion, separate word stress does not exist in Hindi but it asserts itself only in coherent speech as sentence stress. However, since within the sentence always

sentence stress, therefore in this sense word stress still plays an important role as the phonetic basis of sentence stress.

2.2. General Principles on Syllabification

since - as already mentioned above - word stress in Hindi is the phonetic basis of the sentence stress and the word to which prominence is given is the vehicle of the sentence stress, we have to ascertain whether there are such general rules, which define the place of sentence stress in the word to which prominence is given.

For this it is first of all important to make the syllabification on the correct basis. According to us this is only possible according to the phonetic form of the word pronounced in speech, and not according to the aksaras. Thus the words ER ghar 'house' /two aksaras/, All bat 'affair', 'matter' /two aksaras/ are monosyllabic; the words ART zara 'a little' /two aksaras/, ART parvat 'mountain' pehla 'first' /three aksaras/, ART parvat 'mountain' /four aksaras/ are disyllabic; the words ART parvat 'mountain' great king' /four aksaras/, ART ART REPORT 'court' /four aksaras/, ART REPORT 'court' /four aksaras/

aksaras/ are trisyllabic; and the words जीचनालय vacanalay 'reading-room' /five aksaras/, पवित्रता pavitrata 'sanctity' /four whole aksaras and one abbreviated aksara/, प्रियो pradarsanī 'exhibition' /four whole and two abbreviated aksaras/ are quadrisyllabic.

opinion, according to which in Hindi pronunciation the so called inherent a is frequently reduced but does not disappear entirely and therefore we must count with its presence. This view can strongly influence the syllabification, as well as the establishment of the number and lenth of syllables. In fact, Rudin acts according to this and just therefore he arrives at the conclusion that in most of the cases there is no difference between the number of syllables and the number of aksaras. 43/

As regards the reduction of the inherent a, as we have already mentioned, we agree with Rudin's statement inasmuch as the inherent a is not always dropped entirely in terminal and medial position after a closed syllable. According to us, however, the reduced inherent a can only be regarded as syllabic, if it is terminal and is preceded by a consonant cluster, as for example pater? 'letter', cit-r2 'picture',

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svasth-y2 'health', etc. In other cases the reduced inherent a is not syllabic from the viewpoint of stress. In prosody, on the other hand, according to the characteristic scansion the reduction of the inherent a is really not taken into consideration, that is the inherent a is always pronounced, just like in Sanskrit, but in a reduced form, as ∂ . This, however, does not affect the phonetic character of general speech, and thus here the number of syllables cannot be generally identified with the number of aksaras.

2.3. The Place of Stress in the Word to which Prominence is Given - Syllabic Length and Stress - Stress Relations of Nouns, Adjectives and Adverbs

We have seen that word stress in Hindi is the phonetic basis of sentence stress. Word stress asserts itself as the stress of the word to which prominence is given, that is as sentence stress. Let us see now, whether there is such a general rule which gives us orientation as regards the place of stress in the word to which prominence is given. To this, first of all we must know, on the one hand, that in the word to which prominence is given only one syllable is the vehicle of sentence stress, and on the other hand that in Hindi in general in the words /to which prominence is given/ consisting of more than one syllable this stress is always on the longest syllable, wherever this

syllable may be in the word.

2.3.1. As syllabic length - the relative syllabic length - in Hindi is definitely connected with stress, we must examine what are the possibilities of the relative syllabic length and what decides that a syllable is long or short in Hindi. In the Hindi language, proceeding from the shortest syllable to the longest one a certain progressivity can be observed. From the viewpoint of length the syllables show four grades. The short open syllable /short vowel/ is the shortest, the short closed syllable /short vowel + consonant/ is somewhat longer, the long open syllable /long vowel/ is even longer, and finally the long. closed syllable /long vowel + consonant/ is the longest. These syllabic lengths, proceeding from the shortest one towards the longest one, are marked by me with the following numerals:

1, 2, 3, 4

For the sake of orientation the above numerals are written above those syllables to which they relate.

E.g.: 89n-git, 2r-th2, ba-l2k, s2-ma-car.

2.3.2. Before continuing the analysis of the stress relations of the word to which prominence is given, it is remarked that the stress relations dis-

adverbs. The inflected and suffixed nouns, however, are not discussed here. We deal with the stress relations of suffixes, formative syllables and postpositions separately. The stress relations of verbs are also discussed by us separately, as the stress of the verbs is fixed, viz. in the majority of the cases it is on the verbal root.

Thus, as we have already mentioned, in the stressed word consisting of more than one syllable the stress /sentence stress/ is on the comparatively longer syllable. In accordance with this, in the case of nouns, adjectives and adverbs, stress as regards succession can fall on any of the syllables, even on the last syllable. Therefore, in this sense stress in the Hindi nouns, adjectives and adverbs is not fixed. Let us see now the stress relations of the stressed word first in disyllabic, then in trisyllabic and finally in quadrisyllabic words.

2.3.3. In the case of <u>disyllabic words</u> as regards syllabic length three combinations are possible:

a/ the second syllable is longer than the first one
according to the formulae below:

b/ the first syllable is longer than the second one:

c/ both syllables are of equal length:

In the case of a/ stress is on the second syllable, that is at the end of the word. E.g.:

In the case of b/ stress falls on the first syllable, on the initial syllable of the word. E.g.:

In the case of c/, that is when the two syllables are of equal length, stress is on the first syllable.

2.3.4. In the case of trisyllabic words the position is already more complicated. Here the derived and compound words are already more frequent and in practice we cannot always substitute adequate words for the formulae of the syllabic combinations. As regards the place of stress there are three possibilities. Stress can be on the initial syllable of the word, on the medial syllable and on the terminal syllable.

Stress is on the first syllable of trisyllabic words, if this is the longest syllable in the word.

as well as if in the word two syllables are equal in length but longer than the third one, and one of them

is the initial syllable of the word. E.g.:

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The medial syllable of trisyllabic words is stressed, if this is the longest syllable. E.g.:

1 2 1 4 3 1

mo-nus-yo 'man', po-da-ti 'pedestrian',

1 3 2 1 4 1 2 2 1 4 1 2 2 -dar-tho 'material';

as well as, if the medial and the terminal syllables are equal in length, but longer than the initial syllable. E.g.:

po-ro-si 'neighbour', bo-lat-kar 'oppression',

2 3 3
mir-za-I 'jacket');

and also if all the three syllables of the word are equal in length. E.g.:

pra-ga-ti 'progress', pg-ja-ma 'trousers',

Stress is on the terminal syllable of trisyllabic words, if it is the longest syllable in the word.

1 2 3 1 2 4 2-v2e-tha 'age', u-p2n-yas 'novel, - 30 -

1 3 4

82-ma-car 'news', dhan-ya-vad 'thanks',

3 1 4

88-va-dhan 'cautious', pa-ri-var 'family'.

2.4. Stress Relations of Compound Words and Derivatives

four and more syllables, we find that already among the trisyllabic words compound and derived words are frequent, and the words consisting of four or more syllables are almost without exception compound words. Therefore, this circumstance must definitely be taken into consideration in the study of the stress relations of these words. This question has, more or less, been left out of consideration by the authors.

2.4.1. Let us see first the stress relations of compound words. According to the general rule stress is on the first word of the compound words. If the first word is monosyllabic, then stress falls on this. If, however, the first word consists of two or three syllables, then the rules described in the preceding parts of this thesis /2.3.3. and 2.3.4./ regarding the stress of disyllabic and trisyllabic words have to be applied.

In the case of trisyllabic compound words, naturally, there are not yet many possibilities of combination, but in the case of quadrisyllabic or polysyllabic compound words there are.

Trisyllabic compound words:

lakhpati /lakh + pa-ti/ 'millionaire',

rajnīti /raj + ni-ti/ 'politics',

pratahkal /pra-tah + kal/ 'morning'.

words show much more possibilities of combination than the trisyllabic words. The first word - the vehicle of stress - can be monosyllabic, disyllabic or trisyllabic and within this, according to the rules already reviewed, stress can fall on different syllables.

The first word is monosyllabic:

domanzila /do + man-zi-la/ 'two storied',

durdarsita /dur + darsita/ 'foresight'.

The first word is disyllabic. stress on the first word:

bahuranga /ba-hu + ran-ga/ 'multicoloured',

2 1 2 1

alpa buddhi /al-pa + bud-dhi/ 'stupid',

2 1 4 1

artha sastra /ar-tha + sas-tra/ 'economics',

bareheinga /ba-reh + sin-ga/ 'stag',

nakabendī /ba-reh + sin-ga/ 'stag',

nakabendī /na-ka + ben-dī/ 'guard',

khetībarī /khe-tī + ba-rī/ 'agriculture',

atmeketha /at-me + ke-tha/ 'autobiography',

karyekerta /kar-ye + ker-ta/ 'worker',

atmeghatek /at-me + gha-tek/ 'suicide',

agyapalen /ag-ya + pa-len/ 'reliable'.

The first word is disyllabic, stress on the second syllable:

mahakrti /ma-ha + kr-ti/ 'great work',

mahajanī /ma-ha + ja-nī/ 'usury',

prajatantra /pra-ja + tan-tra/ 'republic',

nasabandī /na-sa + ban-dī/ 'prohibition',

yathayogya /ya-tha + yog-ya/ 'adequate',

karorpati /ka-ror + pa-ti/ 'millionaire',

vargīkaran /var-gī + ka-ran/ 'classification',

... 33 .

ayatkarta /a-yat + kar-ta/ 'importer'.

The first word is trisyllabic, stress on the first syllable:

akramanvad /a-kra-man + vad/ 'aggressivity',

3 2 4 4
sahityaprem /sa-hit-ya + prem/ 'love of literature'.

The first word is trisyllabic, stress on the second syllable:

manusyaghat /ma-nus-ya + ghat/ 'homicide',

ajayabghar /a-ja-yab + ghar/ museum'.

polayonvad /po-la-yon + vad/ 'escape from reality'.

The first word is trisyllabic, stress on the third syllable:

kəlpənavad /kəl-pə-na + vad/ 'utopy'.

Thus we have seen how important it is to take into consideration the fact of compounding in the case of compound words. Without this the application of the general rule would very often lead to entirely different results. For example, if we would not take into consideration that the word sahityprem is a compound word /sa-hit-yp + prem/ and that in the compound words

the longest syllable of the first word is the vehicle of the stress of the whole compound word, then we would place the stress on the second word or the last syllable /prem/ of the compound word, because this is the longest syllable of the whole compound word. Since, however, here we have to do with a compound word, therefore stress is on the longest syllable of the first word /sa-hit-ya/, that is on the first syllable of the whole word composition. In many cases the trouble is not that the place of stress is established erroneously, but the confusion is caused by the fact that attention is not drawn on the separate stressing rules of the compound words, and thus the statements given conflict with the general rule. It is to be noted, however that what we have said about the stress of the compound work applies only to those compound words, in which the fact of the compounding has not become obliterated in the consciousness of the speakers. Thus, for example in the word maharaj 'great king'. which in fact is a compound word /m3-ha + rai/ and therefore according to the rules of stressing of the compound words stress ought to be on the second syllable of the first word, but as in practice this wordcomposition is felt to be one word /ma-ha-raj/, stress is placed on the last, longest syllable of the whole

compound word, which is the second word of the word-composition /-raj/.

It is also to be noted that words linked together with sandhi are from the viewpoint of stress treated as simple /non-compound/ words. Thus, in this case stress is on the syllable which is the longest in the whole composition. E.g.:

pros-not-tor/pros-no+ut-tor/ 'question-answer',

1 4 2 1 3 2 2

mo-hot-sov/mo-ha + ut-sov/ 'great festival',

2 3 1 4 2 3 1 1 4

ic-cha-nu-sar/ic-cha + o-nu-sar/ 'according to wish'

2.4.2. The stress relations of the different formative syllables also have to be discussed separately.

Among the preposition-like prefixes there are such especially privative prefixes - which are always
stressed, without regard to the length of syllables
following them. Such are for example:

a- al-mit 'boundless'

dur- dur + da-sa 'disaster'

ni- ni + kam-ma 'useless'

nir- nir + ar-thak 'worthless'

an-tar- an-tar + ras-tri-ya international

On the other hand, there are also such preposition-like prefixes, which are generally stressed.

E. g. :

Besides these there are such suffixes, especially of Sanskrit origin, which added to the endings of nouns and adjectives form new nouns or adjectives from them. Part of these suffixes were originally also nouns, e.g. man 'weight', 'prestige', all 'nature', 'character', etc. In compounds these are unstressed, just like the second element of the compound words discussed earlier.

gu-ru + ta 'weight'

ka-thin + ta 'difficulty'

3 2 2 2 3 4 enecessity'

-alu day + a-lu 'benign'

2 2 4 4 energy 'duty'

-alu day + a-lu 'benign'

-alu day + a-lu 'wise'

-alu bud-dhi + man 'wise'

-alu day - alu 'benign'

2 1 4 energy 'responsible'

-alu vi-car + all 'meditative'

-alu vi-car + all 'meditative'

-alu vi-car + all 'meditative'

2.5. Stress Relations of Inflected Nouns Postpositions

Since the stress relations of inflected nouns and adjectives used as nouns also differ partly from the general rule, therefore we discuss also this question separately.

positions, mostly substituting the suffixes in Hindi, are pronounced in speech after the nouns and adjectives used as nouns as if they were the terminal syllables of the nouns and adjectives u ed as nouns.

B.B. :

ko 'to' larkeko 'to hoy'

men 'in'; among andhommen 'among the blind'

se 'from, by' admise 'from the man'

tok 'till, up to,

to' darvazetak 'till the dor'

It is noted that according to the official grammatical rules postpositions should be written separately also now.

In the case of masculine and feminine nouns the stress relations in the oblique forms singular are just like in the uninflected forms, that is in the nominative singular, discussed already. In the nominative plural of mascaline nouns there is no change either, but in the nominative plural of the feminine nouns there is a certain change. The feminine nouns get the suffixes -yan and -en, respectively, as a result of which the nouns become by one syll ble longer. In the oblique case plural both the masculine and feminine nouns receive the suffux -on and this is followed by the postpositions concerned. In the cases discussed here the stress remains in its original place, only in the oblique case plural it slides over to the suffix -on, on which there is a definite stress. Let us see now the stress relations of masculine and

then of feminine inflected nouns in the singular and plural of monosyllabic, disyllabic and trisyllabic nouns. In the oblique cases we always use the postposition men 'in, into', 'among', which consists of the longest /long closed/ syllable and thus the unstressed character of the postposition is more conspicuous.

2.5.1. Hereinafter we are going to visualize the stress relations of the singular and plural oblique forms of monosyllabic, disyllabic and trisyllabic masculine nouns grouped according to combinations of the syllabic lenth.

masculine nouns, singular oblique form:

ghər	'house'	ghar sen	'in the house'
jŦ	'spirit'	Ji men	'in spirit'
bag	'garden'	bag men	'in the garden'

The nouns mentioned above were all monosyllabic. In the following disyllabic and trisyllabic masculine nouns are classified according to syllabic combinations.

karya 'work' 'in work' kar-ya 3 2 4 non 'in leader' nayak 'leader' madh-you men madhyom 'means' 'in means' ad-ai men 'in man' adaT o man o 'in husband' pati 'husband' ban-dhan men bandhan 'tie' raja kamdar 'director' kam-dar men samacar 'news' kar-ya-lay men in office karyaldy 'office' 1 2 40 in man' manusya 'man' padartha 'article' pa-dar-tha men 'in article' dhanyavad 'thanks' dhan-ya-vad men 'in thanks' pratohkal 'morning' pra-toh-kal men 'in morning' lakhpati 'millionaire' lakh-pa-ti men 'in millionaire' amentren 'invitation' a-men-tren men 'in invitation'

Maxuline nouns, oblique plural:

sho-ron men 'in housea' 'in spirits' 'in spirits' 'in gardens' 'in gar

The jolt-like stress becomes even more conspicuous by the circumstance that the suffix -on in the
first and third of the above examples changes the
syllabic structure. As a result of this the originally longer syllables of the basic words become shorter
and thus the stress on the suffix -on is even more
underlined.

The oblique plural of the disyllabic nouns shows a diversified picture, but it agrees with the oblique plural of the monosyllabic nouns inasmuch as also here there is a jolt-like stress on the suffix -on, what is even more enhanced by the unstressed postposition following it.

In the above two groups in the word pata 'address' the terminal a, and in the words patra 'letter' and karya 'work' the terminal 2 were dropped before the suffix of the oblique plural in accordance with the rules of declension. As a result of this the oblique plural forms of these words became by one syllable shorter than the other words enumerated.

In the following we show the oblique plural of the trisyllabic manculine nouns from the viewpoint of stress. Naturally, here even more combinations are possible in respect of syllabic length, but as we shall see, the jont-like stress on the suffix -on appears also here.

in news'

in news'

in offices';

in articles';

and a substitute of the substitute

Among the above words, in the words manusya 'man' and padartha 'article' the terminal a was dropped before the suffix -on of the oblique plural in accordance with the rules of declension. On account of this the oblique plural forms of these words are by one syllable shorter than the corresponding forms of the other words enumerated.

that in all those cases, in which the basic word ends in a closed syllable - e.g. bag, na-yok, so-ma-car -, as well as in those cases, in which according to the rules of declension the terminal vowel of the basic words is dropped in the oblique plural - e.g. po-ta,

pat-ra, ma-nus-ya - , the last consonant of the basic word went over to the beginning of the syllable formed by the suffix -on. As a result of this the syllable preceding the suffix became shorter, which makes the stress of the suffix even more conspicuous.

2.5.2. Let us see now the stress relation of the nominative plural, as well as the oblique singular and plural of the monosyllabic, disyllabic and trisyllabic feminine nouns.

Let us take first the nominative plural of the feminine nouns. Here the rule is that the feminine nouns ending in long T and short i receive in the nominative plural the suffix -yan and at the same time the terminal long T becomes shorter. All the feminine nouns having another ending receive the suffix -en in the nominative plural.

Mominative of feminine nouns - nouns ending in long I and short i /as in this category there are hardly any monosyllabic words, therefore we deal here only with disyllabic and trisyllabic nouns/:

proti 'copy' pro-ti-yan 'copies'

ogni 'fire' og-ni-yan 'fires'

rīti	'custom'	rI-ti-yan	'customs'
wurti	'figure'	wur-ti-yah	'figures'
potnI	'wife'	pət-ni-yan	'wives'
19rkI	'girl'	lər-ki-yan	'girls'
petI	'belt'	pe-ti-yan	'belts'
akrti	'face'	a-kr-ti-yan	'faces'
↓ apatti	'disaster'	a-pat-ti-yan	'disasters'
↓ rajnīti	'politics'	raj-nI-ti-yan	'politics'
10rai	"war"	10-ra-i-yan	wars*
kulhar T	'axe'	kul-ha-ri-yan	'axes'
lekhanī	'pen'	le-kho-ni-yan	*pens*

Nominative plural of feminine nouns with other endings:

19t	'lock'	12-ten	'locks'
bat	'talk'	ba-ten	*talks*
lahar	'wave'	12-h2-ren	'waves'
dukan	'shop'	du-ka-neñ	'shops'
borsat	rainy season'	bar-sa-teň	'rainy seasons'

			2	
#	dīvar	'wall'	dI-va-reh	•walla•
	kətha	'tale'	Ro-tha-en	'tales'
	jonta	'people'	jan-ta-en	'peoples'
	asa asa	'hope'	u-su-en	'hopes'
_	v agya	'order'	↓ ag-ya-en	'orders'
	↓ v∂stu	'thing'	var-tu-en	'things';
	kahavat	'proverb'	ka-ha-va-ten	'proverbs'
4	ų pustika	'booklet'	pus-ti-ka-en	'booklets'
	↓ vatika	'garden'	va-vi-ka-eň	'gardens'
	vacika		gu-ru-ta-en	
	kothinta		1 1	'weights'
	kothinta	ty"	ka-thin-ta-en	'difficulties'
	komalta	'softness'	ko-mal-ta-en	'softnesses'
	avaetha	*condition	2-v2s-tha-en	'conditions'
	kolpona +	'idea'	kal-pa-na-en	'ideas'
	4	'request'	prar-tho-na-eh	'requests'

As can be seen from the above examples, as a result of the changing of the syllabic length the stress in the plural sometimes shifts from its original place, but the suffixes -yan and -en never become stressed.

Stress relations of oblique singular and plural of feminine nouns:

The phonetic form of feminine nouns in oblique singular does not show any change as compared with the phonetic form of the nominative singular, they only receive the postposition concerned, which is unstressed. Thus the place of stress does not change either as compared with the nominative singular.

E.g.:

protimen 'in copy'

loral men 'in war'

bat men 'in talk'

dukan men 'in shop'

kolpona men 'in idea; etc.

Thus the stress is everywhere on the same syllable, on which it was in the nominative singular.

The oblique plural of the feminine nouns is also formed with the suffix -on just like that of the mass-culine nouns. In the case of feminine nouns ending in long I and short i the glide -y- is inserted between the terminal vowel and the suffix -on and the termi-

plural. In the case of the feminine nouns ending in other vowels or in any consonant the suffix -on of the oblique plural is added to the unchanged form of the word. The stress shifts over on the suffix -on or -you also in the oblique plural of the feminine nouns, just like in the case of the oblique plural of the masculine nouns.

het us see now a few examples on the oblique plural of feminine nouns ending in long I and short i, and ther on the oblique plural of feminine nouns ending in some other vowel or in consonant:

		+		
prati	copy,	pro-ti-yon men	'in copies'	
+ akrti	'face'	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	'in faces'	
petI	'belt'	po-ti-you men	'in belts'	
lekhonT	.'pen'	le-kho-ni-yon men	'in pens';	
bat	'talk'	ba-ton men	'in talks'	
dukan	'shop'	du-ka-non men	'in shops'	
vəstu	'thing'	vəs-tu-on men	'in things'	9
katha	'tale'	ka-tha-on ach	'in tales'	30
19h9r	, Mare,	10-h2-ron men	'in waves'	2

pustikā 'booklet' pus-ti-kā-on men 'in booklets'

kalpana 'idea' kal-pa-na-on men 'in ideas'

in ideas'

disaster' mu-si-ba-ton men 'in disasters'

Among the above examples in those words, which end in a closed syllable, the terminal consonant goes over to the beginning of the syllable formed by the suffix -on.

2.6. Stress Relations of Verbal Roots and Verbal-

P.6.1. As we have already mentioned, the stress relations of the Hindi verbs differ to a certain extent from the stress relations of the nouns and adjectives. Therefore we hold it important to analyse this question in some detail. As arvey of the literature on the problem shows that the authors in general point out the fact of stress carried by the verbal roots, but they do not discuss the question in detail. A.P. Barannikov - P.A. Barannikov deal with the stress relations of verbs briefly but separately. They show that in the Hindi verbs the stress is always on the verbal root, and if the verbal root consists of two or more syllables, then stress falls on the last syllable of the verbal root. However, they do not discuss in detail the stress relations of the certain

absolutive/, and especially the stress relations of the compound verbal forms and the compound verba. Besides them Kamtaprasad Guru. 46/ Dhirendra Varma. 47/
Arvendra Sharma /BGMH/, 48/ as well as S.G. Rudin 49/
and Z.M. Dymshits of also dealt with the subject. For example Rudin 11/ and Varma 52/ characterize the stress relations of the verbal root by comparing the monosyllabic and derivative polysyllabic /so called causative/ verbal roots, but a more detailed and systematic explanation is not given by them either.

tions of Hindi verbal forms seems to be so much the more important as, on accound of the analytic character of conjugation and party of the formation of verbs in Hindi, the certain verbal forms very frequently consist of several constituent elements and thus the pludy the stress relations of these goes beyond the framework of word stress in the stricter sense. Besides this, the clarification of the stress relations of verbs and complexes of verbs is important also from the practical point of view. In fact, on account of the phonemic character of stress, correct accentuation promotes, while incorrect accentuation disturbs the intelligibility of speech.

2.6.3. Thus according to the general rule outlined in literature there is permanent or fixed stress on
the verbal root. In the case of the disyllabic and
polysyllabic verbal roots this is always on the last
syllable of the verbal root. We get the verbal root
by omitting the terminal -na of the infinitive.

The general rule mentioned above holds good in many cases but not in all cases. Therefore let us take the monosyllabic, disyllabic and trisyllabic verbal roots one by one and let us see where the general rule holds good and where it does not hold good. In the following we shall examine the stress relations of monosyllabic, disyllabic and trisyllabic verbal roots in the verbs below.

onosyllabic verbal roots:

sunna 'to hear' verbal root: sunana 'to come' verbal root: adekhna 'to see' verbal root: dekh-

Disyllabic verbal root:

sunana 'to relate' - verbal root: suna-

Trisyllabic verbal root:

pahuncana 'to convey' - verbal root: pahunca-

In the examples after the verbal root the following verbal forms will be enumerated, in which all the morphologically different elements of the Hindi verbs occur: /l/ infinitive; /2/ present participle; /3/ past participle; /4/ indicative present, general; /5/ indicative present, progressive; /6/ present perfect; /7/ future tense; /8/ optative; /9/ imperative, simple; /10/ imperative, polite; /11/ absolutive /verbal root/ + k3r; /12/ infinitive + vala; /13/ absolutive /verbal root/ + modifying verb.

Monosyllabic verbal roots:

- /1/ sunnā; /2/ suntā; /3/ sunā;

/4/ suntā hūn; /5/ sun rəhā
hūn; /6/ sunā hɛ; /7/ sunūngā;

/8/ sunūn; /9/ suno; /10/ sunie;

/11/ sun kər; /12/ sunne vālā;

/13/ sun lenā.

As can be seen, the stress is generally on the monosyllabic verbal root consisting of one short closed
syllable in all cases mentioned above. However, the
stress can shift from the verbal root to the last syllable of the verbal form in the case of the optative
/8/, the simple imperative /9/ and the polite imperative /10/, if we give special emphasis to the verbal
or if we repeat it.

In the examples after the verbal root the following verbal forms will be enumerated, in which all the morphologically different elements of the Hindi verbs occur: /l/ infinitive; /2/ present participle; /3/ past participle; /4/ indicative present, general; /5/ indicative present, progressive; /6/ present perfect; /7/ future tense; /8/ optative; /9/ imperative, simple; /10/ imperative, polite; /11/ absolutive /verbal root/ + kar; /12/ infinitive + vala; /13/ absolutive /verbal root/ + subsidiary verb.

Monosyllabic verbal roots:

sun
/// sunna; /2/ sunta; /3/ suna;

/4/ sunta hun; /5/ sun raha

hun; /6/ sunta ht; /7/ sununga;

/8/ sunun; /9/ suno; /10/ sunie;

/11/ sun kar; /12/ sunne vala;

/13/ sun lena.

As can be seen, the monosyllabic verbal root consisting of a/chort closed syllable does not preserve its
stress/in each case. In the case of the optative /8/,
the simple imperative /9/ and the polite imperative /10/
the stress hifts from the verbal root to the last
syllable of the verbal form. This applies to all those

E.g.:

suno bhai! /no answer/

bat suno! kya tum meri bat no sunte ho? listen to me! don't you hear my word?

or:

come!

come!

come!

come on! let us go!

Let us see now the stress relations of the monosyllabic verbal roots consisting of one long open syllable and one long closed syllable, respectively, or more exactly the stress relations of the synthetic and analytic verbal forms of these verbs, on the basis of the examples mentioned above.

- /1/ anā; /2/ atā; /3/ ayā;

/4/ atā hun; /5/ a rəhā hun;

/6/ ayā hɛ; /7/ aungā;

/8/ aun; /9/ ao; /10/ aie;

/11/ a kər; /12/ ane valā;

/13/ a jānā.

verbs the root of which consists of one short closed syllable.

B.g.: colna 'to go'; girna 'to fall'; likhna 'to write'.

verbal root:	cəl-;	six-	likh-
optative:	colun;	girun;	likhun
simple imperative:	calo:	/giro;	likho
polite imperative:	colie;	girie;	likhie

Let us see now the stress relations of the monosyllabic verbal roots consisting of a long open syllable and a long closed syllable, respectively, or more exactly the stress relations of the synthetic and analytic verbal forms of these verbs, on the basis of the examples mentioned above.

/1/ ana; /2/ ata; /3/ aya;

/4/ ata hun; /5/ a rəha hun;

/6/ aya hɛ; /7/ aunga;

/8/ aun; /9/ ao; /10/ aie;

/11/ a kər; /12/ ane vala;

/13/ a jana.

dekh- - /1/ dekhna; /2/ dekhta; /3/ dekha;

/4/ dekhta hun; /5/ dekh roha hun;

/6/ dekha hz; /7/ dekhunga; /8/ dekhun;

/9/ dekho; /10/ dekhie; /11/ dekh kor;

/12/ dekhne vala; /13/ dekh lena.

Thus the above monosyllabic verbal roots consisting of a long open and a long closed syllable, respectively, preserve their stress in each case.

As we have already mentioned, in the case of the disyllabic and trisyllabic verbal roots, according to the rule, the stress is always on the last syllable of the verbal root. In the following we shall see that there is no exception to this rule.

Disyllabic verbal root:

suna- /1/ sunana; /2/ sunata; /3/ sunaya;

/4/ sunata hun; /5/ suna roha hun;

/6/ sunaya ht; /7/ sunaunga;

/8/ sunaun; /9/ sunao; /10/ sunaie;

/11/ suna kor; /12/ sunane vala;

/13/ suna dena.

Trisyllabic verbal root:

pahunca - /1/ pahuncana; /2/ pahuncata;

/3/ pahuncaya; /4/ p huncata hun;

/5/ pahuncaya raha hun; /

/6/ pahuncaya he; /7/ pahuncaunga;

/8/ pahuncaun; /9/ pahuncao;

/10/ pahuncaie; /11/ pahunca kar;

/12/ pahuncane vala;

/13/ pahunca dena.

After these we can already establish that, taking into consideration all the categories of verbs enumerated, in the synthetic forms /consisting of one element/ and in the analytic forms /consisting of several elements/ of the Hindi simple verbs the stress is mostly on the verbal root /in the analytic verbal forms on the root of the main verb/. In the disyllabic and trisyllabic verbal roots the vehicle of stress is always the last syllable of the verbal root. However, the group of monosyllabic verbal roots consisting of a short closed syllable /sun-, col-, gir-, likh-, etc./ is an exception to this rule. Here, in those verbal forms, which by their nature contain a certain degree of emotion, viz. optative, simple imperative, polite imperative, the stress shifts from the verbal root to the last /second or third/ syllable of the verbal

form, viz. munn. suno. sunie. It is noted that the last syllable of the disyllabic and trisyllabic verbal roots /suna-, pahunca-, etc./ is almost always a long open syllable /-a-/, which is generally the longest syllable of the verbal root. Thus, in this case, the stress corresponds also to the general rules of stress in Hindi, at least within the verbal root.

It is also an important observation that in the analytic verbal forms, those consisting of several elements /e.g. sunta hun, sun roha hun, sunata hun, suna raha hun, etc./, which in practical speech form the majority of the verbal forms, the stress is always on the root of the verb, the main verb. This is especially important in the case of the verbal structure consisting of the absolutive /root of the main verb/ + a Submidiary verb. It is more or less the Hindi equivalent of the verbs with prefixes in Hungarian and in certain other European languages. In this structure in Hindi one verbal concept is expressed with two verbs, viz. the root of the main verb /absolutive/. which is the vehicle of the meaning of the verb, and an additional, "modifying" verb which, on the one hand, ensures the conditions of conjugation and, on the other hand, expresses the perfective aspect, definiteness, and eventually the direction and other

circumstances of the action.

E.g.

sunna 'to hear' - sun lena 'to come to hear'

unana 'to tell /a story/ - suna dena 'to relate'

rokhna 'to put' - rokh dena 'to put down'

girna 'to fall' - gir jana 'to fall down'

In such cases verbal forms consisting not only of two elements but also verbal forms consisting of three elements can arise.

5.5.

suna deta he 'I come to hear'

suna deta he 'he relates'

rokh dete hen 'they put down'

gir goya tha 'it has fallen down'

Thus, as we can see, the stress is here always on the root of the main verb. The verbal forms appearing in the structure absolutive /root of the main verb/ + subsidiary verb are such stressing units, in which the connection of the certain elements is indicated by the stress /the main stress/.

2.6.4. The Hindi language - similarly to Urdu. Persian-Tadzhik and Turkish, and very likely on the direct or indirect influence of these languages - expresses a considerable part of the verbal concepts not in a synthetic but in an analytic way, viz. by compounding. The first, main element of such compound verbs, which is the vehicle of the meaning of the verb, is a noun or an adjective. The second element is some simple verb, which ensures the conditions of conjutation, e.g. karna 'to do, to make', hona 'to be'. etc. In these compound verbs the analytic character of Hindi conjugation asserts itself in an even greater degree. Thus here it is even more important to include in some way the verbal forms of compound verbs consisting of more, different, elements in one unit. This is ensured also here by the /main/ stress, which is always on the vehicle of meaning, viz. the noun or adjective. Thus in the compound verbs from the viewpoint of stressing the noun or the adjective plays the role of the verbal root. Let us see for example the stress relations of the following compound verbs:

bat karna 'to converse' /to make conversation/
suru karna 'to begin' /to make beginning/

kosis korna 'to try' /to make trial/

** 'to clean' /to make cleanness/

lojjit hona 'to feel shame' /to be bashful/

somapt hona 'to end' /to be completed/

In the following we enumerate such examples, in which the verbal forms of compound verbs in themselves represent incomplete sentences.

bat ker reha hun I am conversing

suru kerta ha /he/ starts /in general, not just now/

kosis kerunga I shall try

sefai ker denge we shall clean /absolutive + dena as subsidiary verb/

be jjit ho reha ha he is feeling ashamed

semapt ho geya tha it has ended

The increased analytic character of the compound verbs can be seen well even from the above examples. Here we find also such verbal forms which consist already of four elements. The stress / the strongest stress/ falls always on the first element of the compound verb, viz. on the noun or adjective. This stress is on that syllable of the noun or adjective, which would be stressed also according to the general rules of

word stress, viz. bat, suru, kosis, lojjit, sofai, etc.
The verbal forms consisting of three or four elements
brought about in the course of conjugation are combined
by the stress into larger stressing units, just like
the verbal forms of the simple verbs consisting of
several elements.

3. SENTENCE STRESS - PLACE OF THE WORD TO WHICH PROMINENCE IS GIVEN IN THE SENTENCE

3.1. Sentence Stress as the Form of Appearance of

on the preceding pages we tried to ascertain on which syllable of the word to which prominence is given the sentence stress can fall. We have stated that in Hindi word stress asserts itself only as the phonetic basis of sentence stress, and it does not exist separately, in an isolated form. In practice the form of appearance of the stress is the sentence stress. Now we investigate, which word in the sentence can be the word to which prominence is given, viz. the vehicle of sentence stress, and what are the criteria on the bands of which this can be determined in Hindi. Before discussing this, however, let us make a short survey of the observations of general validity on sentence stress in professional literature.

5.2. Observations of General Validity on Centence Stress in Professional Literature

languages, thus also in Hindi. In spite of this most of the authors discussed so far do not deal with this question at all. Only 1.G. Rudin mentions sentence stress, when he states that the sentence stress can fall also on monosyllabic words. Therefore in the following I discuss this subject mainly relying upon my own observations and on the basis of comparison with other languages.

The survey of literature offers valuable footholds to the characterization of sentence stress also regarding the Hindi language. The observations found in works on the stress relations of German, Anglish of and especially Hungarian furnish useful material to the study of stress relations in Hindi and especially of sentence stress in Hindi. It turns out that the stress relations are analysed by these authors more or less in their grammatical relationships. 77/ although the semantical and psychological aspects are not neglected by them either. In their expoundings in connection with sentence stress they also touch upon the stress relations of the certain kinds of words and morphemes, as well as the syntactic characteristics.

I have arrived at the conclusion that in the formation of sentence stress in the different languages exactly the grammatical relationships are those factors which show a great degree of parallelism. Therefore in the analysis of sentence stress in Hindi I have also chosen the grammatical relationships as a basis of starting. Of course, I do not strive for completeness, what at any rate would be impossible, but I deal only with the characteristic types of stress in Hindi.

3.3. Stress Relations of Kinds of Words and Parts of Sentence

In the Hindi language there are such kinds of words and parts of sentence, which on account of their place in the sentence or their more important or less important role in the sentence are stressed or unstressed.

3.3.1. Among the kinds of words in Hindi sentences the demonstrative pronoun, the interrogative pronoun, the adverb, as well as the negative particle,
the prohibitive word and the interjection are in general stressed. All these - on the basis of their original character - draw the attention to a certain circumstance, action, or quality.

In general, in the Hindi sentences the postposition and the conjunction, as mere relationship indicating elements, are unstressed.

as we shall see later, the unstressed elements can in practice also become stressed as pairs of sharp contrasts, etc.

parts of sentence we find that none of the parts of sentence can be regarded as stressed or unstressed on the basis of their nature. From the viewpoint of the stress the decisive factor is, how important role the part of sentence plays in the sentence, or in the syntactic context.

Let us see now the place of the word to which prominence is given in the different kinds of sentences.

rimple

3.4. Centence Stress of Declarative Sentences

In the following we shall examine the sentence stress first of all in the different categories of declarative sentences.

3.4.1. Simple sentences.

The sentence stress is on such kinds of words,

which are in general stressed:

Yah bat he.

This is the point.

JI han.

Yes.

No.

In the above sentences the vehicle of the sentence stress a demonstrative pronoun, an adverb and the negative particle.

The sentence stress is on the word important from the viewpoint of meaning:

Thik he.

All right.

πān janta hε. Ran knows.

Larka so raha ht. The boy is sleeping.

Ghar unca hE.

The house is high.

In the above examples the vehicle of the sentence stress is the predicated adjective /thik, unca/ and the verbal root /so/, respectively.

3.4.2. Extended simple sentences

Extended simple sentences, extended with adverb. sentence stress on the adverb:

Mangal bag wen ht.

Mangal is in the garden.

The girls are playing well.

extended simple sentence, extended with adjectival attribute and adverb, sentence stress on the adverb:

The small girls are playing well.

Simple sentence extended with an attributive adverb, sentence stress on the subject:

In the old time /there/ was a king.

Simple sentence extended with object, sentence stress on the object:

The king employed a monkey.

pronoun, the infinitive of a compound verb and negative particle, sentence stress on the <u>negative particle</u>:

Ese murkha ko naukar rakhna ucit nahin ha.

It is not reasonable to employ such a fool.

the sentence stress is always on the word immediately preceding the emphatic sorphese /hT, bhT, aur/, on the word to which prominence is given:

Vah ek hi hat he.

It is all the same.

Larka ek bhi ma unta.
The boy takes no notice of it.

Ek aur bat hg.
The is still another thing.

3.4.3. Complex sentences

Descussing the different coordinative and subordinative complex sentences, we do not strive for completeness either, but we group the certain model sentences according to elements and characteristics typical from the viewpoint of sentence stress in Hindi.

a/ Coordinative complex sentences

In Hindi there occur such pairs of coordinative sentences, which are not linked with conjunctions, but the first sentence is a short statement, which is followed by an explanation relating to it. A good

example for this is the following proverb:

The washerman's dog, not good for anything.

/literally: ..., neither of the river-bank,

nor of the house./

In the above example there are also three sentence stresses.

In the following we enumerate such examples in which the coordinated sentences are linked by conjunctions. The most frequent coordinating conjunctions in Hindi are: aur 'and', lekin, parantu, par 'but', 'however', to 'then', phir 'then', 'again', atah 'thus', 'therefore', na ... na 'neither... nor', ya 'or', phir bhī 'still', varna 'otherwise', arthat 'that is, namely'.

E.g. :

Ram cola goya aur phir nohīn aya.

Relgar ruk soyl lekin yatri nohin utre.
The train stopped, but the passengers
did not get down.

The kodom age, to do kodom piche.

One step forward two steps back.

Vah ghar men gaya, phir ghar se bahar aya.

He went into the house, then he came out of the house.

nahīn he.

Ramesh earns much money, thus he is not poor.

Kamra na bahut bara ha, na chota.

The room is neither too big, nor small.

Kal ham nagar jaenge, ya ghar par thaharenge.

Tomorrow we shall go to town or we shall stay
at home.

Admi bahut nirbal tha, phir bhī bojhā uthā sakā.

The man was very weak, still he could lift the weight.

Dervaze ko bend kerna cahie, verna chota lerka

The door should be closed, otherwise the small boy will come out.

Vah patra laya, arthat vah patra lane ke lie

He brought the letter, that is he went to bring the letter.

The cordinative complex sentences listed above consist of two coordinated sentences each, in both of which there is one sentence stress each.

b/ Subordinative complex sentences

From the multitude of the subordinative complex sentences we mention here only a few to characterize the sentence stress.

In one of the frequent categories of the subordinative complex sentences the subordinate clause is introduced by one of the forms of the relative pronoun to 'who', 'which', 'what', and the main clause begins with one of the forms of the demonstrative pronoun vah 'that'.

B. g. :

A friend is who helps in the difficult situation.

Jis kI lathI us kI bhens.

Who has the stick, he has the buffalo.

Jo bohut janna cahta h£, use bohut porhna cahie.

Who wants to know much, must learn much .

The subordinate clause beginning with the conjunction ki 'that' is frequently preceded by a main clause beginning with some form of the demonstrative pronoun yeh.

E.g.:

Hat you haki man us ko nohin janta.
The position is that I do not know him.

The subordinate clause beginning with the conjunction yodi 'if' is followed by a main clause beginning with the deictic to 'then'.

E.g.:

Yadi aj panī na barasta to ham ser karte.

If it would not rain today, then we would take a walk.

The subordinate clause beginning with the conjunction yadyapi is followed by a main clause beginning with the conjunction phir bhī.

E.g.:

Yodyapi admī bahut kam karta tha, vah phir bhī

Although the man worked a lot, he was still poor.

tence stress never fell on the relative pronoun or on the subordinative conjunction. But in certain cases the reference word /veh/. or conjunction /phir bhl/in the main clause can be the vehicle of the sentence stress (clause stress).

3.5. Sentence Stress of Exclamatory Sentences

The exclamatory sentence usually contains a high degree of emotion and is very frequently a short simple sentence also in Hindi. One of its important characteristics is the stronger stress than the usual. The exclamatory sentence frequently begins with an interjection.

E.g.:

JI, Rām a gayā!

Behold, Rām has come!

dre, kan ho gaya!

Indeed, the work has been done!

Sabas, garī cal parī!

Excellent, the car has started off!

In the above sentences the conjunction and the main verb /it; root/ of the verbal form expressing the action or happening are the vehicles of the sentence stress.

From the viewpoint of stress, the exclamatory sentences differ from the declarative sentences mainly in respect of the stronger emotion.

3.6. Sentence Stress of Desiderative Sentences

spects to the exclamatory sentences. They are generally introduced the desiderative modifying words you 'if', kas ki 'if', 'I wish', or the sentence were canta hun 'I wish'. In English these are uniformly translated with the desiderative clause 'I wish'.

E.g.:

Yadi vah hindT bolta!

I wish he would speak Hindi!

Kas ki mujhe aj potro mila hota!

I wish I had received a letter today!

Mth canta hun ki us pustok ko no porha hota!

I wish I had not read that book!

As can be seen from the above examples, of the phrases indicating desideration the kas ki and the men canta hun are stressed, while the conjunction yodi is unstressed. Besides this, always that word of the sentence is the wehicle of the stress to which the desideration relates.

3.7. Sentence Stress of Imperative Sentences

The demand or order can be direct or indirect.

There is a whole scale of demand /direct demand/ in Hindi.

B.B.

bol! - speak! /only to children and inferior subordinates; occurs also
in poetry/

bolo! - speak! /informal demand between friends, etc./

bolen! - /please/ speak! /polite demand/

bolie! - /please/ speak! /most polite demand/

The strength of emphasis of the sentence stress depends on the strictness or definiteness of the demand or request.

E.g. 1

Halke svar men bol!

peak in a low voice!

The svar men na bolo!

Don't speak in a loud voice!

Ap hindThen bat karen!

/Please/ speak Hindi!

- 71/2 -

Kepa karke dhire-dhire bolie!
Please speak slowly!

Krpa karke bolie!

As we see from the above examples, in the sentence always that action, or its modifying word /which can also be a <u>prohibitive word</u>/ carries the strongest stress to which the demand or request relates.

prohibition or request. Here the introductory part of the sentence is also a demand and can have the same variations as the direct order. The structure and stress of the introductory part are fairly uniform. The order to be conveyed itself is the second part of the sentence. This can also be a prohibition, when the prohibitive word is the vehicle of the sentence stress.

Us se kah dijie ki cup rahe.
Tell him to keep silent.

Give order to the soldiers not to go into that house.

To the stress relations of these sentences more or less the same rules apply as to the sentences con-

taining direct orders.

The order or warning relating to future time is expressed in Hindi with the infinitive. In sentences of this kind the sentence stress is on the word or phrase modifying the action.

Samay par ana!
Come in time!

B. B. &

The following demand is in fact the manifestation of a decision.

Hem ko jane do!

In sentences of this character the sentence stress is always carried by the infinitive, to which the decision is directed.

3.8. Sentence Stress of Interrogative Sentences

In Hindi we can distinguish two main types of the interrogative sentences, viz.: sentences containing questions under consideration and sentences containing questions to be completed. Both groups are characteristic from the viewpoint of stress and intonation.

3.8.1. In the following the stress relations of the question under consideration will be examined by us in such sentences, which essentially contain the same question under consideration with certain slight differences. Because of the simplicity of the sentences the shades of the question are generally expressed by indicatory morphemes.

E.g.:

Kya yah admī Mangal hg?

Is this man Mangal?

Yoh admi Mongol he na?
This man is Mangal, isn't he?

Yah admī Mangal ha ya nahīh?
This man is Mangal, or not?

Yah admī Mangal he ki nahīn?
This man is surely Mangal?

In the first sentence the interrogator leaves the decision of the question entirely to the questionee. The morpheme kya, which should not be translated, indicates in the beginning of the sentence that an interrogative sentence follows. Otherwise the word order is identical with the word order of the declarative sentence.

In the second sentence the opinion of the inter-

from the questionee, but he himself does not decide the question. Here the characteristic Hindi interrogative particle nais at the end of the sentence. The word order of the sentence agrees also here with the word order of the declarative sentence.

In the third sentence the opinion of the interrogator is also expressed, but the indicatory morpheme
ya nahīn at the end of the sentence expresses uncertainty.

In the fourth sentence the interrogator already takes up a definite position and expects from the questionee to confirm his opinion.

There is stress on the words used as indicatory morphemes in all the four cases. The other most emphatically stressed word of the sentence is the word appearing to be questionable /or doubtless/.

3.8.2. In the sentences containing questions to be completed we can always find also some interrogative word /interrogative pronoun, adverb/, which indicates to what the question relates. The question can relate to persons, objects, place, time, quantity or manner.

B.E.

Kaun bolta he?

Mangal kya karta hE?
What does Mangal do?

What is the time?

Us ke kitne bacce hen?

How many children has he?

Relgar kab aeg ??
When will the train come?

Pustak kahah h£?

Vah kese holta he?

How does he speak?

In the above sentences the sentence stress is always on the interrogative pronoun or on the adverb. We find in the first two sentences interrogative pronouns and in the other sentences adverbs.

A structurally separate form of Hindi interrogative sentences is that sentence containing a question ment, and its second part is such a question to be completed, which relates to the closer definition of the statement in the first part of the sentence.

E.g.:

Ram Dilli cola goya yoh ap ko kis ne botaya?
Ram to Delhi went, this you who told?

/Who told you that Ram went to Delhi?/

From the viewpoint of the sentence stress, to the first part of the sentence the stressing rules of the declarative sentences and to the second part the stressing rules of the sentences containing questions to be completed are valid.

3.9. Meaning Differentiation by Sentence Stress

general, we frequently meet with the phenomenon of meaning differentiation by stress. This property of stress is connected with the phonemic character of stress mentioned also by Bloomfield. The differentiation of meaning by stress in Hindi asserts itself in the sentence, thus it is sentence stress. It is not confined separately to some word, but it appears only in words uttered in a syntactic context, which just as a result of meaning differentiation are the vehicles of sentence stress, the means of emphasizing.

eaning differentiating stress can be of two kinds: 1/ it can relate to a certain syllable in the word to which prominence is given. and 2/ to the whole of a word to which prominence is given in the sentence. In the first case the place of stress changes within the word to which prominence is given, that is it shifts to another syllable from the one on which it originally was. On account of this the meaning of the word changes completely or is only modified. In the second case, as a result of prominence given, the accent falls on the word to which we just want to give prominence, however within this word it falls on the syllable which is to be stressed according to the general rules of stressing. Also in such cases there is a certain difference as regards the conventional place 2 of the accent, however this asserts itself not within the word but in a way that we give prominence to such a word of the sentence to which generally no prominence is given. It is just this circumstance that renders it possible to modify the meaning of a word or of a sentence by giving prominence to a certain word .

3.9.2. Professional literature has dealt much with the question of meaning differentiation by stress. Here we take first a few illuminating examples from Hungarian professional literature on the basis of which we

can get nearer to the elucidation of the problem also in Hindi. Gyula Laziczius. 59/ dealing with the phonetics of the Hungarian language, elucidates the question on the basis of examples taken from German. French, Inglish and Russian. According to him in the languages of free accentuation word accent can have an important role from the viewpoint of expression of meaning both on the lexicological and syntactical levels. Laziczius also speaks about contrasting stress which is, however, classified by him not as meaning differentiating stress but as emotional stress, and is apparently regarded by him as word stress. 60/ As we shall see later, the statements of Laziczius can be applied also to the Hindi language especially regarding the so called contrasting stress, however not as emotional stress but as meaning differentiating stress, and not in the category of word stress but in that of sentence stress. Another Hungarian investigator dealing with the subject in connection with the Hungarian language is Laszlo Deme. 61/ He al o mentions the contrasting stress, but only briefly and similarly relating it into the category of word stress. Deme deals in a much greater detail with meaning differentiating stress and he does this already in the framework of sentence stress. He also di cusses

of words and with parts of sentence. He states that although the character of meaning differentiating stress cannot be undoubtedly connected with the circumstance that the given word is a certain kind of word or a certain part of sentence, still there are such kinds of words and parts of sentence, which are in general stressed or are in general unstressed. As we have pointed out in Chapter 3, this applies also to Hindi and it can be attributed just to this circumstance that the meaning differentiating stress has such an important role in the Hindi language.

Above we have discussed the opinions of such authors who do not deal with the sindi language. Let us see now the opinions of some Indian and foreign investigators on meaning differentiating stress in Hindi. The majority of the authors discuss this question actually in connection with the stress relations of certain verbal forms, only briefly and in the framework of word stress. According to Kantaprasad Guru, 63/ if a certain word in Hindi has two different meanings, the difference in meaning is indicated by the changing of the place of stress. Guru gives two examples. The word by the means 'increased' /past participle/ and 'increase' /imperative/. /In the first

case the barha is the ma culine singular past participle of the verb bernna 'to grow', while in the second case it is the imperative of the verb barhana 'to increase' which is identical with the verbal root./ In the first case stress is on the first syllable. while in the second case it is on the second syllable. The econd example of Kantaprasad Guru is the word ki. Here the feminine of the possessive postposition in regard to the phonetic form coincides with the simple past ten e feminine of the verb karna 'to do'. Therefore, for the take of differentiation, in the latter sense the ki is stressed. Dhirendra Varma discusses the question even more briefly. He only quotes the second example of Kamtaprasad Guru /ki as postposition and as simple past tense/, giving to it the same explanation as Guru. S.G. auding 65/ deals with the question also in a similar way as the former two authors. however in a somewhat more detailed form. By way of example he enumerates such pairs of words, in which the first word is the past participle masculine of the imple verb, while the second one is the verbal root of the so called 'causative" verb formed from the same simple verb. The two elements of the pairs of words agree with each other in regard to their phonetic form. The infinitives of the pair of verbs mentioned by him

are as follows:

ugnā 'to grow' - uganā 'to increase'
səməjhnā 'to understand' - səmjhānā 'to cause to
understand', 'to explain'

thaharna 'to stay' - thahrana 'to quarter'

From these verbs he forms the following pairs of verbs:

past participle masculine		verbal root
↓ ugā	-	ug a
√ s∂mjhā	-	s∂mjh a
thahra	_	thahra

Thus, as can be seen, the two corresponding elements of the above pairs of verbs are identical in respect of their phonetic form, and their meanings are really differentiated only by the changing of the place of stress. From this Rudin draws the conclusion that there is meaning differentiating /phonological/ stress in Hindi. 66/ To support this statement, Rudin quotes in full the relevant statement of Kamtaprasad Guru /Hindī vyākaran (Russian version). Moscow 1957. § 58, p. 66/. As we can see, the authors mentioned so far deal very little with the problems of meaning differentiating stress in Hindi, and completely disregard the meaning

differentiating sentence stress.

R. R. Sisson, 67/ on the other hand, in the course of comparison of the stress relations of the so called "Gouthern British English" and Hindi, deals already considerably more with the stress relations of Hindi. Sisson 68/ takes his statements on Hindi stress in the first place from R.C. Wehrotra's 69/ article entitled "tress in Hindi", which according to him is the only comprehen ive description of Hindi stress published to date. Mehrotra really deals more thoroughly with the problems of Hindi stress, especially with those of Hindi meaning differentiating stress, than any of the authors discussed by us so far. Mehrotra speaks in the first place about sentence stress, more exactly about meaning differentiating sentence stress, a. this can be concluded also from the following passage quoted from him 70/ /for the sake of uniformity I give his examples in the system of transliteration and marking followed by me/:

"In most of the cases, what does a stress in Hindi is that an ordinary meaning is converted into some special meaning of the same lexical unit by the use of it, e.g. /hun/ 'am' vs. /hun/ 'yes, yes, I am'."

It is Mehrotra's merit that he approaches the question from many ides. He gives many examples, in which the

change of meaning caused by the meaning differentiating stress is frequently elucidated by him with explanatory words in English, e.g.:

/mcn + nohin + tha/ 'anybody else might be there but I was definitely not' versus /mcn + nohin + tha/ 'I was not (there)'.

Although Mehrotra's article means a considerable step ahead in the approach of the character of Hindi stress, especially meaning differentiating stress, we definitely miss that he did not try to systematize his statements in some way. He did not deal for example with the question of the generally stressed and generally unstressed kinds of words and parts of sentence. and did not tell explicitly when he was speaking about sentence stress and when about word stress.

3.9.3. In the following first of all we deal with the stress relations of those pairs of verbs, the first element of which is some simple verb, and the second element is the so called causative form of the same simple verb. We have seen that the works published earlier on the subject mentions of this category as one of the forms of appearance of meaning different lating stress in Hindi. The endenotra and he classifies them as predictable stress. In our opinion the character of this stress

is different from the other forms of meaning differentiating stress. In fact, as we have already expounded in part 2.6., in the case of the Hindi verbs the stress is fixed, viz. it is always on the verbal root, and in the case of verbal roots consisting of more than one syllable it is on the last syllable of the verbal root. The verbal form mentioned here as an example is usually the past participle of some simple verb and the verbal root of the so called causative verb formed from the same simple verb. The phonetic form of these pairs of verbal for as is identical, but just on the basis of the general stressing rules of verbs already mentioned the stress is on the last sillable of the verbal root. Now in the first case the verbal form is not the verbal root but the verbal root + a, while in the second case the same verbal form agrees with the derived verbal root.

una 'to grow' - ugana 'increase'

In accordance with this:

of una:

of una:

of una:

of una:

of una:

of una:

similarly:

somojhna 'to under - somjhana 'to cause to understand',

stand'

to explain'

somjha

and esplain'

Thus, in view of the fact that the stress actually does not shift here, but the different verbal forms of two different verbs coincide in respect of the phonetic form, we do not classify these cases under the category of meaning differentiating stress.

3.9.4. Let us see now that form of meaning differentiating stress, when the prominence relates to a certain syllable of the word to which prominence is given, and exactly to such a syllable of it which otherwise would not be stressed. Such syllables and morphemes are in Hindi as follows:

- 1/ the plural suffixes -en and -var of the feminine nouns;
- 2/ the postpositions, where as a result of
 the process of absolutination the nouns
 are pronounced together with their relative postpositions, and in recent times
 they are even written in one word;
- of the past participle, which are originally unstressed.

The meaning differentiation of the above mor-

ing stress. This asserts itself in Hindi practically always at the end of the word or phrase and always in a syntactic context.

B. B.

1/ the stress shifts to the suffix -en or -yan of the feminine noun:

Men ne nohin koha mez. nen ne koha

I did not say table, but I said

Us ne nohīn likha kursī, us ne likha kursiyan.

He did not write chair, but chairs.

2/ stress is on the postposition:

Kya lifafa pastak men ht, ya pastak ar ht?

Is the envelope in the book or on the book?

5/ the stress shifts from the verbal root to the suffix:

Nya ap ne somjha colna ya colta?

Did you understand to so or coing?

He did not hear he may no but you no.

sentence, consisting of two parts. In accordance with this in such sentences there are two sentence stresses, on the two collated or contrasted word elements.

of the meaning differentiating stress, in which the prominence relates to the whole of the word to which prominence is given. As we have already mentioned, in this case the stress falls on the word to which we want to give prominence. Here the stress is carried by that syllable of the word which is to be stressed on the basis of the general rules of stressing. In such cases prominence is usually given to such a word of the sentence, which otherwise would be unstressed, but practically it can be any word of the sentence.

of the scaning differentiating stress in such types of sentences which in our opinion are most suitable for this purpose. These sentence types are as follows: in the category of the declarative sentences, simple sentences and extended simple sentences; impoporative sentences: interrogative sentences including question under consideration, and question to be

completed. The model sentences to be enumerated will be grouped so that first we are always giving such a standard sentence in which the sentence stress is in the usual place, on the usual kind of word or part of sentence. Then, according to possibility, this sentence is diversified by giving prominence to different words.

Declarative sentence

simple sentences:

Ram janta he.

Ram janta h£.

Ram knows.

Ram knows /not someone clse/.

The house is high.

The house high /and not something else/.

extended simple sentences:

Larkiyah acchi tarah /Simple sentence extended khol rahl nen. well.

Larkiyan dechī tarah khel rohi hen.

They are the rirls, who are playing well.

with adverb, sentence The girls are playing stress on the adverb/ Choti larkiyan acchi tarah khel rahi hen.
The small girls are playing well.

Choti lorkiyan acchi tarah khel rahi hen.
They are the small sirls who are playing well.

tha.

In the old time there was a king.

tha.

In the old time there was a kin and not in recent times./

Raja ne ek bəndər ko naukər

The king employed a monkey.

Raja ne ek bandar ko naukar rakha.

It was the king who employed a monkey.

/Simple sentence
extended with adjectival attribute
and adverb.

/Simple sentence
extended with an
adverb modified
with attribute./

/Simple sentence extended with object./

Raja ne ek bandar ko naukar rakha.

/res/ the king /really/ en-

Imperative sentences

Ap hindl men bat koren!

Speak in Hindl!

Ap hindl men bat koren!

You should speak in Hindl

/not someone else/!

The svar men na bolo!

Loudly do not s cak /otherwise you may speak/!

Hom ko jane do!

Let us go!

Lot ko jane do!

Let us go /not others/!

/Order to accomp-

some action./

/Decision_/

Interrogative sentences uestion under consideration:

Is Mangal a peasant?

Mangal kisan he?

Is it Mangal who is a peasant?

Mangal ke pas bahut pesa he? Doos Mangal have much money?

he?

Is it Manual who has much money?

Mangal ke bacce bag men khelte hen?

Do Mangal's children play in the garden?

Mangal ke bacce bag men
khelte hen?

Are they Mangal's children
who play in the garden?

/ mestion under consideration extended with possessive attribute and adverb of degree./

/question under consideration extended with possessive atribute and adverb of place./

question to be completed:

What does Mangal do?

What does Mangal do?

What does Mangal do

/not someone else/?

Us ke kitne bacce hen?
How many children does
he have?

Us ke kitne bacce hen?
How many children does he have /not someone else/?

Relgar kob aeg 7?
When will the train come?

RelgarI k2b aegI?
When will the train come
/not something else/?

Ap ka kya hal h£?

Ap ka kya hal h£?

/Originally the sentence stress is always on the interrogative word./ rentiating sentence stress asserts itself in seneral so that it appears in a place which is different from the usual one. From the generally stressed syllable or morpheme it shifts to the generally unstressed syllable or morpheme, or from the word which is generally the vehicle of the sentence stress, it shifts to some other word of the sentence.

The shifting of the stress in this manner modifies the original meaning of the word or the sentence, it gives more importance to a certain word in the sentence in comparison to the other words, or it corrects or elucidates the meaning of some phrase.

As can be seen also from the examples given above, the word order of dindi simple sentences and extended simple sentences is fixed. As a result of this the meaning differentiating stress is much more important in Hindi than for example in Hungarian or in certain other languages, where prominence can be given to a word also by the modification of the conventional word order.

III. INTONATION

4. GENERAL VIEWPOINTS

Intonation is actually the fluctuation of the pitch level of the syllables following each other, or of the vowels in them. In literature in general the authors distinguish between word intonation and sentence intonation. In Mindi speech, however, intonation has an important role only as sentence intonation, intonation asserts itself only within the sentence, as a constituent of coherent speech. Therefore we also speak here only about sentence intonation even then, if the sentence consists by chance of one word, we hold the fact established by several investigators correct that in the certain languages there is a close relationship between stress and intonation. Therefore intonation can be studied only in relationship with stress.

nation in the different languages, we also represent the viewpoint according to which the syntactic factors also influence and in certain cases determine intomation. According to our investigations this statement applies also to the Hindi language. The syntactic elements directly determining intonation are called by M. Bierwisch "syntactic intonation

markers" /syntaktische Intonationsmarker - SIM/.75/

5. A SULVEY OF LITERATURE ON INTONATION IN

The question of intonation in Hindi, curiously enough, has been discussed so far almost exclusively by non-Indian investigators. Brief observations and explanations on the problem can be found mostly in text-books, but not in all text-books. First we review the most characteristic ones of these in the order of their publication.

First of all we review T.Grahame Bailey's 76/
text-book entitled "Teach Yourself Urdu". The author
in his introduction deals briefly also with questions
of intonation in Hindi /Urdu/. His observation is
interesting according to which the prominence by
atress and intonation asserts itself in the sentence
with the change in the direction of the course of intonation, viz. up or down. This is expressed by him
us follows: "The prominence of Urdu syllables in the
sentence seems to be partly due to a slight increase
of ferce coupled with a change in the direction of
intonation which may be up or down..."

A phenomenon similar to Bailey's characterization was observed by Alexander V. Izacenko - Hans-Joa-chim Schädlich 77/ in the sentence intonation of the

German language. They call this phenomenon the "break of the pitch level" /Tonbruch/, with the remark that this "break" appears always immediately before the stress of the sentence or section of sentence /ra-iktischer Tonbruch/, or after the same /postiktischer Tonbruch/.

underlines the important role of intenation in Hindi. Although he does not mention sentence intenation in an explicit form, his expounding quoted belo still refers to sentence intenation:

"All the more attention is to be paid to the intonation. The range of intonation in Rindi is narrower than in English. In most words consisting of two and more syllables in a sentence the tone of voice usually rises gradually towards the end of the word, in the last word of the sentence the voice falls. In a question, the voice may rise even in the last word.

Correct intonation, which is a very important feature in Hindi, cannot be acquired without listening to a good speaker..."

As it is shown also by the above quotation, lorizka approaches the characterization of intonation in Hindi from another viewpoint, but he does not discuss the question in detail either. What he says, is correct, but naturally it is not in the least suffi-

cient to give a clear picture of intonation in hindi.

The text-book of Z.M. Dymsnits - O.G. Ul'tsiferov -V.I. Goryunov 79/ also discusses the question of intonation in Hindi in a brief form. They distinguish talling and rising intonation. The authors mark the failing intonation with an arrow banding downwards and the rising intonation with an arrow bending upwards in the interspace between two words where the falling or rising of the intonation starts. According to them - quite correctly - the falling intonation occurs in declarative and negative sentences, as well as in such interrogative sentences /question to be completed/ in which there are interrogative words, kising intonation, on the other hand, can be found in the question under consideration, the falling and rising of the intonation is in the last section of the sentence in each of the cases enumerated. The relationship between intonation and stress is not mentioned by the authors. Briefly so much for the explanations and characterizations to be found in the certain text-books.

The authors to be reviewed in the following deal with the question of intonation in Hindi already on a more scientific basis. E.g. S.G. Rudin and V.A. Chernyshev discuss the problem of intonation in Hindi in a more comprehensive form. Rudin analyses

rather the phonetic aspects of intenation in diadi,
while Chernyshev underlines the secantic and syntactic role of intenation in detail. Audin's merit is
that he definitely points out the important role of
intenation. Chernyshev's work, on the other hand,
means a step shead in so far as that it draws the
attention to the syntactic role of intenation in Hindi.
He shows that in the quite short sentences without
verbs the intenation is the basic and only means of
predication. He mentions the role of intenation in
the distinguishing and separating of sentences with
examples and with the marking of the course of intonation. However, he does not analyse the question of
the intenation markers.

Thus, as we have seen, the majority of the authors dealing with intonation in dindi disease this question only briefly. They rather strive to give a phonetical characterization of intonation, although its importance is stressed more or less by each of them. Only Chernyenev deals with the syntactic aspects of intonation in findi but the different intonation markers — which as we shall see also have an important role in the definition of the character of intonation in mindi — are not mentioned by him either.

6. FORMS OF NOTATION OF INTONATION

6.1. Notation of Intonation in the Different Languages

The notation of the different types of sentence intonation has engaged the attention of the investigators for a long time. They tried to illustrate the characteristic forms of the types of sentence intonation with different aethods and means. This endeavour asserted itself more or less in two main directions. One of the trends tries to register the whole course of intonation, while the other wants first of all to characterize the certain types of intonation, completely or partly disregarding the elements of secondary importance.

Gyula Laziczius jives a short surmary of the notation of intonation on the basis of examples taken from the Hungarian, English and German languages. He denotes the whole course of sentence intonation by indicating the certain syllables with dots so that with in accordance with he pitch level of the certain syllables the certain dots are arranged higher or lower. The whole sentence is put between square brackets, e.g. []. He represents the gliding downwards or upwards appearing at the end of the question under consideration with an arrow pointing downwards or up-

wards.

Izacenko - Schädlich B4/ deen important the notation of the break of the pitch level before the sentence stress /praiktischer Tonbruch/ and the break of the pitch level after the sentence stress /postiktischer Tonbruch/ from the viewpoint of the characterization of intonation. In accordance with this they represent the course of intenation before and after the break of the pitch level with horizontal straight lines and the break itself with a vertical line so that the section of line before the break, the line indicating the break and the section of line following the break form one continuous whole. If the course of the break is falling, then the section of line before the break goes along above the words, then after the break it continues under the words, and if the break is rising, then the section of line before the break goes along under the words and after the break it continues above the words. Rog. -/falling break of the pitch level/. /rising break of the pitch level/. The horizontal lines before and after the break of the pitchlevel indicate the beginning and the end of the sentence. respectively. The stress is not indicated separately. it follows from the stressing rules of the German language.

M. Bierwisch 15/ also holds the role of break of the pitch level before and after the sentence stress important; Trom the viewpoint of the determination of the types of intonation in German. However, he indicates the course of the change of the pitch level already more accurately. Therefore he denotes the pitch level of the certain syllables with numerals from 1 upwards under the words. He also indicates the sentence stress with numerals above the words, underlining the close relationship of stress and intonation also by this.

1 was war das?"

"Ein Flugzoug."

dections with lines characterizing the course of intonation, which do not show the limits and intervals of the certain syllables. The stress of the sections of sentence is indicated by the letters set in bold type of the stressed syllables.

b.g.: 1. /intenation of

/intenation of question under consideration/:

1. __ 2.

/intonation of declarative sentence/. Fonagy - Riara Mandics 87/ to register the melody, the intonation of Hungarian speech. Similarly to the musical notation, they also give the "notes" of the certain model sentences, they represent the intonation of the certain sentences with notes, and indicate the section stress above the stressed syllable.



6.2. Notation of Intenation in Windi

As we have already mentioned, there are only a few such works which deal also separately with intonation in Hindi. It is a peculiar circumstance that the Indians themselves, whose opinion would be the most competent, have so far dealt very little with this question. Thus, in reviewing the ways of notation of intonation in Hindi we can mention only foreign authors.

T. Grahame Bailey illustrates the intonation also in two ways, viz. by writing the certain syl-

lables higher or lower in accordance with the pitch level of the certain syllables concerned, and also by registering the pitch level of the syllables in two line spaces, like musical notes.

by three lines to denote the intonation in Hindi /Hin-dustani/ and he separates the sections of the sentence with vertical lines. He denotes the syllables with horizontal lines and also indicates the stress.

to that of <u>kudin</u> in so far as the syllables are represented with horizontal lines also by him, but he does not use line spaces and does not indicate the place of the stress either. He represents the differences between the pitch levels of the certain syllables with dots corresponding to the number of grades of the pitch level.

As we have already mentioned, A.A. Dynahita
O.G. Ul'teiferov - V.I. Goryunov 91/ denote only the

most characteristic section of intonation, viz. the

break of the pitch level. They indicate falling in
tonation with an arrow bending downwards / >/. and

rising intonation with an arrow bending upwards /-/.

They put these marks after the ord, after which this

change in the pitch level takes place.

7. CHARACTERIZATION OF THE COURSE OF INTONATION
IN HINDI ACCORDING TO KINDS OF SENTENCES

On the basis of my observations I have arrived at the conclusion that it is most suitable to exemine intonation in Hindi, as sentence intonation, in its syntactic relationship, because we can include this phenomenon in an adequate system only this way. Therefore I also examine Hindi sentence intonation in the framework of the syntactic basic forms, the simple kinds of sentences. It is important to know that the order of words in Hindi simple sentences is fixed. The subject with its eventual complements is at the very beginning of the sentence. This is followed by the object with its eventual complements, and then at the end of the sentence is the predicate consisting in eneral of several elements. The negative particle. the prohibitive words and the interrogative words stand always before the word to which they relate. The adverb is most frequently found before the verb. E.K.

/1/ Ram pustak parhta ha. /declarative sentence/
Ram book reads.

/Ram reads the book./

- Ram book not reads.

 /Ram does not read the book./
 - /3/ Ap pustak mat parhie! /prohibitive sentence/
 You book not read!

 /Do not read the book!/
- /4/ Ap pustok mujhe dijie! /imperative sentence/
 You book to me ive!

 /Give me the book!/
- /5/ Ram ne pustak mez par kyon rakhī? /question to be Ram book table on why put? completed/
- /6/ Ram pustak parhta he? /question under conside-Ram book reads? ration/ /Does Ram read the book?/

we find an identical word order in each of the above sentences. Therefore intonation in Hindi has a more important meaning differentiating role than in those languages in which the word order in the sentence is not fixed. This fixed word order in Hindi makes it results for us at the definition of intonation in the certain sentences to take into consideration on that portion of the sentence which extends from the word to which prominence is given up to the end

by us the nucleus of intonation. Thus for example if in sentence /1/ the word to which prominence is given, is pustak 'book', then the nucleus of intonation will be (pustak partia ha). In sentence /2/ the word to which prominence is given, is the negative particle nahin 'no' or 'not'. Therefore the nucleus of intonation will be here (nahin partia ha). As we shall see, this portion of sentence contains all those phonetic and syntactic-semantic elements, on the basis of which we can define the type of the whole sentence.

In the nucleus of intonation I indicate the sentence stress, the main stress by putting the mark above the stressed syllable /as I indicated the sentence stress in the same way also in the part discussing stress/, and to characterize the course of intonation I show the relative pitch levels with the numerals 1, 2 and 3 under the syllables concerned, where 1 means the lowest pitch level, 2 the medium pitch level and 3 the highest pitch level.

Let us see now how the above statements assert themselves in the different kinds of sentences.

7.1. Intonation of Declarative Sentences

In Hindi the intonation of declarative sentences consisting of one word adjusts itself more or less to the main stress of the word.

E.g.:

Symacar. News. /Here we find a certain glide

1 2 3

of the pitch level downwards

at the end of the last syl
lable./

But:

Karyalay. Office. /Here the <u>falling</u> intonation 3 21 is already in harmony also with the word stress./

In the declarative sentences consisting of several words the falling intonation is found already everywhere. We have to remark, however that this falling character applies mainly to the nucleus of intonation. that is to that part of the simple sentence, which contains the essence of the statement and starts with the word carrying the sentence stress.

E.g.:

/7/ Yah (pustak ha). This book is. /This is a book./

As we have already mentioned above, the part of the sentence put in brackets is the <u>nucleus of intonation</u>.

Wity the numerals under the certain syllables we indicate the relative pitch level, and thus the course of intonation, and the sing / / above the corresponding syllable of the word to which prominence is given indicates the sentence stress. That part of the sentence which precedes the nucleus of intonation is of secondary importance from the viewpoint of both stress and intonation and therefore we do not furnish this with a special notation. If the sentence is extended, both the <u>nucleus of intonation</u> and the section of the sentence preceding this can be extended.

E.g.:

/8/ Rames (parh raha ha). Rames reading is.
/Rames is reading./

/9/ Romes (pustok ko porh roha ht). Rames book reading is. /Rames is

/10/ Romes pustok ko (mujhe deta he). Rames book to me gives. /Rames gives the book to me./

/11/ Rames pustak ko (ghar par parh raha h£). Rames book home at reading is.

/Rames is reading the

book at home./

7.2. Intonation of Negative Sentence

The intonation of declarative sentences containing negation deserves special attention. In those negative sentences, in which the negative particle nahin 'no' is at the end of the sentence, the nucleus of intonation is actually the negative particle nahin itself.

E.g.:

In these sentences the sentence stress is at the end of the negative particle and the course of intonation is definitely <u>rising</u>. If, however, the negative particle is followed also by another word, then the main stress shifts to the first syllable of the negative particle <u>nohin</u> and the nucleus of intonation shows a definitely <u>falling</u> tendency.

E.g.:

/14/ Us ki bat thik (nohin hg). His talk correct not is. /He is not right./

/15/ Men use (nahin janta hun). I him not know.
32 22 / /I do not know him./

7.3. Intonation of Prohibitive Sentence

In the case of the prohibitive sentences similarly the <u>falling</u> intonation is characteristic. Here the
nucleus of intonation begins with either of the prohibitive words <u>mat</u> or <u>na</u> 'not' and the main stress is
always on them.

E.g.:

/17/ Nøgør ko (møt jao)! Town to not go! /Do not go to town!/

/18/ Is pustak ko (na parhie)! This book not read! /Do not read this book!/

/19/ Opne mitro se Esa vyovohar (mot koro)! Your friend with such behaviour not make! /Do not behave like this with your friend!/

If we observe the above examples, we see that in the case of the extension of the sentence the

structure of the nucleus of intonation is always the same. viz. prohibitive word + verb in imperative mood, and only the part preceding the nucleus of intonation becomes extended. This is where the prohibitive sentence differs also from the simple declarative sentence and the imperative sentence, in which the nucleus of intonation can be extended.

7.4. Intonation of Imperative Sentence

The imperative sentence is also characterized by the <u>falling</u> intonation. This equally applies to the sentences consisting of one word and to those consisting of several words.

E.g.:

/23/ Is pustak ko (mez par rakhie)! This book table on put!

/put this book on the table!/

7.5. Intonation of Interrogative Sentence

Here we have two main types, viz. sentences containing questions to be completed and sentences containing questions under consideration.

7.5.1. The question to be completed has no characteristic intonation typical only of itself. The course of its intonation is also falling just like that of the majority of the declarative and negative sentences, as well as of the prohibitive and imperative sentences. As regards its structure, the question to be completed is distinguished from the question under consideration by the fact that the interrogation is indicated in it always by some interrogative word, or interrogative morpheme. The economy of the language asserts itself also here. It does not allow the use of superfluous marking elements.

E.g.:

/28/ Mangal (kya kar raha h£)? Mangal what doing is? /What is Mangal doing?/

/29/ Rames pustak (kis ko deta h£)? Rames book
whom to gives?

/To whom does Rames
give the book?/

7.5.2. The intonation of the question under consideration differs from the intonation of all the kinds of sentences discussed up to now. Asy here the question is not indicated by any morpheme, therefore a special intonation of fixed form is required to mark the question. This is the so called interrorative intonation. The last section of the sentence is the interrogative nucleus, 92/ or the nucleus of intonation. In this the course of intonation is risingfalling. If the word to which prominence is given. the vehicle of the main stress is monosyllabic and is not followed by a postposition, than the pitch level glides upwards in the same syllable /from the relative pitch level marked with 2 to the relative pitch level marked with 3/, and then on the last syllable of the nucleus of intonation it falls again back, but somewhat lower than the initial level, to the relative pitch level marked with 1.

/30/ Mangal (kam kar raha he)? Mangal work doing is? /Is Mangal doing work?/

bic, or a monosyllabic word but followed by a postposition, then the gliding upwards of the pitch level
does not take place. In such cases the first syllable
is of the relative pitch level marked with 2, on the
second syllable, and in the case of a monosyllabic
noun followed by a postposition, on the postposition
the pitch level rises without gliding to the relative
pitch level marked with 3 and on the last syllable of
the nucleus of intonation it falls back to the relative
pitch level marked with 1.

E.g.:

/31/ Kya yah admi (Mangal hg)? This man Mangal is? /Is this man Mangal?/

/32/ Kya men (ghar ko jaun)? I house to should go? /Should I go home?/

If the word to which prominence is given is monosyllabic /32/, then the main stress, the sentence stress

is on the monosyllabic word, quite the same whether this noun is followed by a postposition or not, and whether in the other words of the nucleus of the interrogative intonation there is a longer syllable than this or not. If the word to which prominence is given is disyllabic and its first syllable is equal in length with the second syllable or longer than the second syllable, then the main stress is on the first syllable. If, however, the second syllable is longer, then the main stress is on the second syllable. For the first version see model sentence /31/ and for the second version:

If the word to which prominence is given consists of three or more syllables, then the main stress falls on the syllable on which it should be in accordance with the stressing rules already discussed in the part on stress.

E.g.:

/35/ Kya vih (pintalis rupaye deta hi)? He forty2 3 3 3 3 3 3 3 4
five rupees gives?

/Does he give

forty-five rupees?/

/36/ Mangal (manusya hE)? Mangal man is? /Is Mangal a man?/

/37/ Vah (samacar lata he)? He news brings? /Does
12333 he bring news?/

/38/ Yah (pradarsani hE)? This exhibition is?
/Is this an exhibition?/

/39/ Is men koi (kathinai hE)? This in some difficulty is? /Is some difficulty in this?/

In sentences /33/, /34/ and /35/ the kya is not identical with the kya 'what' in the question to be completed /24/. The kya introducing the question under consideration is only a marking morpheme which indicates that it will be followed by a question under consideration. It is not absolutely necessary to use it, but even if it is used, it is not translated into English.

As can be seen from the above examples, the main stress /the sentence stress/ is always on the first word of the nucleus of intonation. on the word to which prominence is given. If this word is monosyllabic, then the pitch level glides upwards at the end of the word. If however, the monosyllabic word is followed by a postposition, then this gliding upwards does not take place /see model sentences /30/ and /32/ /. In the polysyllabic word to which prominence is given the main stress is in general on the longest syllable, or if two syllables of equal length are the longest syllables, then the main stress falls generally on the first one of these, as for example in model sentence /39/.

A special case of the nucleus of intonation is, when in the question under consideration the word to which prominence is given is the verbal form he is.

In this case - as according to the general rules of Hindi word order the predicate /in the present case the verbal form he is'/ is always at the end of the sentence - the nucleus of intonation consists of this one word. This is at the same time the vehicle of the sentence stress. The pitch level is the relative pitch level marked with 3, from which a certain gliding downwards can be observed.

E.g. :

/40/ Is men koi kathinai (hg)? This in some difficulty is? /Is in
this some difficulty?/

In the sentences containing a question under consideration the nucleus of intonation can also be a verbal form consisting of one or more elements of a simple verb or a compound verb /noun or adjective + simple verb/. In such cases the sentence stress is always on the first element, in the case of simple verbs on the verbal root, and in the case of compound verbs on the noun or adjective having the function of the verbal root. Otherwise, this is in accordance with the statements to be found in part 2.6. entitled "Stress Relations of Verbal Roots and Verbal Forms".

The nucleus of intonation is a verbal form of a simple verb:

/44/ Kya Ram (ane vala hg)? Ram to come prepares?
/Does Ram prepare to come?/

/45/ Kya Ram (gir gaya)? Ram fell down? /Did Ram fall down?/

/46/ Kya Ram (ae)? Ram should come?
/Should Ram come?/

As we see, in the above model sentences the sentence stress is always on the verbal root, which is the first element of the verbal form and at the same time of the nucleus of intonation. It is noted that in verbal forms consisting of two elements, in which the first element, the verbal root is a short closed syllable, and the second element consists of two syllables /see model sentence /45/ /, the pitch level on the verbal root glides upwards from the relative pitch level marked with 2. Another special case is /see model sentence /46// when the nucleus of intonation consists of one disyllabic synthetic verbal form. In this case the pitch level on the first syllable is the relative pitch level marked with 2, and on the second syllable the pitch level rises to the relative pitch level marked with 3, whereafter it glides downwards.

The nucleus of intonation is the verbal form of a compound verb:

/47/ Kya Ram (kam karta ht)? Ram work does?
/Does Ram work?/

/48/ Kya Ram (kam kar raha ht)? Ram work doing is?
2 3 3 3 1 /Is Ram working?/

/49/ Kya Ram (səfai kərega)? Ram cleaning-will do? /Will Ram clean?/

/50/ Kya Ram (səfai kərne vala hs)? Ram cleaning 2 33 3 3 3 5 1 to do prepares?

/Does Ram prepare to clean?/

/51/ Kya Ram ne (səfai kər di)? Ram cleaning has done? /Has Ram done cleaning?/

/52/ Kya Ram (safai kare) ? Ram cleaning should do? /Should Ram clean?/

/53/ Kya Ram muje (maf karta hE)? Ram me excused
2 3 3 / makes? /Does Ram
excuse me?/

/54/ Kya yah samacar ap ko (malum h£)? This news
you to known is?

/Do you know this
news?/

Among the above model sentences in the case of /47/, /48/, /49/, /50/, /51/ and /52/ in the nucleus of intonation the vehicle of the sentence stress is a noun, while in the case of model sentences /53/ and /54/ it is an adjective. As we have already mentioned, in the compound verbs the noun or the adjective has in fact the function of the verbal root. Therefore it is the vehicle of the sentence stress. The sentence stress comprises here the whole verbal form into a larger stressing unit, which is at the same time the nucleus of intonation. As regards the place of the sentence stress within the word the statements made in the part dealing with stress are valid.

8. STRUCTURE OF THE NUCLEUS OF INTONATION,
PHONETIC AND SYNTACTIC INTONATION MARKERS

While examining the certain characteristics of intonation we observed that the terminal part of the certain kinds of sentences in Hindi, the nucleus of intonation is as regards its structure characteristic of the kind of sentence concerned. The nucleus of intonation contains such phonetic and syntactic elements, on the basis of which we can make conclusions regarding the type and character of the sentence. We call these characteristic elements phonetic and syntactic intonation markers. The intonation markers show that we are in such a section of the sentence /the nucleus of intonation/, the intonation of which indicates the prominence and which contains the word to which prominence is given. Depending on the fact whether these elements are of syntactic or phonetic character, we speak about syntactic or phonetic intonation markers.

8.1. Phonetic Intonation Markers

The nucleus of intonation of every kind of sentence contains the sentence stress, which falls always on one of the syllables of the word to which prominence is given. In Hindi the word to which prominence

nence is given stands at the beginning of the nucleus of intonation, that is the nucleus of intonation begins with the word to which prominence is given. The sentence stress, as a permanent element of the nucleus of intonation, is in our opinion a phonetic intonation marker. This circumstance also shows the close relationship of sentence stress and intonation.

The course of intonation, the changing of the pitch level in the nucleus of intonation is also a phonetic intonation marker. Generally this can be in Hindi of two kinds. The course of intonation of the declarative, negative, prohibitive and imperative sentences, as well as of the sentences containing a question to be completed is falling, while the course of intonation of sentences containing a question under consideration is rising-falling. The question under consideration is determined already by the rising-falling intonation alone. The special position of the interrogative intonation and the character of the course of intonation in the Hungarian language are aptly analysed by I. Fónagy - K. Magdics 93/ and L. Deme. 94/ However, to define the other kinds of sentences, besides the phonetic intonation markers already mentioned also other characteristic elements are required. Such are the syntactic intonation markers.

8.2. Syntactic Intonation Markers

As we have seen, the rising-falling course of intonation is such a phonetic intonation marker, which determines the question under consideration already in itself. The falling intonation, on the other hand, is characteristic of several kinds of sentences /declarative, negative, prohibitive and imperative sentences, as well as sentences containing a question to be completed/. Therefore, here further intonation markers are required. These are the syntactic intonation markers. The syntactic intonation markers are characterized by M. Bierwisch 95/ as follows: '...wir wollen syntaktische Elemente, die unmittelbar die Intonation determinieren, "syntaktische Intonationsmarker" /SIM/ nennen. Von anderen syntaktischen Bedingungen, zu denen in gewissem Sinn ja auch die Grenzsymbole gehören, sind die SIM deutlich zu unterscheiden. Sie sind nicht, wie die Grenzsymbole, lediglich Elemente oder Reflexe der syntaktischen Oberflechenstruktur, sondern spielen eine eigenständige Rolle in der Tiefenstruktur und - mindestens zum Teil auch in der semantischen Interpretation der Sätze: sie representieren damit genau das, was man herkömlich unter der "Bedeutung" der Intonation versteht.

Thus as we see, according to M. Bierwisch the

syntactic intonation markers have an important role in the determination of the character of intonation, of the "meaning" of intonation. The generally known economy of the languages regarding the application of the special forms of intonation asserts itself also in Hindi. This is possible just because in the sentences which do not contain a question under consideration the nucleus of intonation has such syntactic elements, which are characteristic of the certain kinds of sentences concerned and thus they are suitable to distinguish the kinds of sentences with falling intonation.

The syntactic intonation markers of the certain kinds of sentences are as follows:

that of the declarative sentence: verb in indicative; that of the negative sentence: the negative particle nahin:

that of the prohibitive sentence: the prohibitive words mat and ma:

that of the imperative sentence: verb in imperative or subjunctive;

that of the question to be completed: some interrogative morpheme /kya. kaun.

kahan, kitna. etc./.

Declarative sentences:

As we see, in each of the examples listed above the verb is in indicative and the nucleus of intonation on does not contain any other syntactic intonation marker.

Negative sentences:

Each of the above nuclei of intonation contains the negative particle nahin, always at the first place.

Prohibitive sentences:

In each of the above two examples we find the prohibitive word, always at the first place.

Imperative sentences:

In each of the above examples the <u>verb in imperative</u> appears as a common element.

Sentences containing question to be completed:

/72/
$$(kya + hE)$$
 interrogative word + simple verb

In all the examples listed above we find interrogative word at the first place, which is the vehicle of the sentence stress.

8.3. Structure of the Nucleus of Intonation

On the basis of the above examples, the various types of structure of the nucleus of intonation can be systematized and the observations made this way can be utilized also in the practical teaching of Hindi. In the following the abbreviated sign of the verb is V and the abbreviated sign of the noun is N.

8.3.1. The main types of the <u>nucleus of intonation</u> containing <u>falling</u> intonation are as follows:

Declarative sentence:

N in nominative + V in indicative + sentence stress on the N + falling intonation; or V in analytic verbal form, in indicative + sentence stress on the first element of V + falling intonation; or N in adverbial case + V in indicative + sentence stress on N + falling intonation

Negative sentence:

negative particle + V + sentence stress on the negative particle + falling intonation

Prohibitive sentence:

prohibitive word + V in imperative + sentence stress on the prohibitive word + falling intonation

Imperative sentence:

V in imperative + sentence stress on V + falling intonation; or N in accusative + V in imperative + sentence stress on N + falling intonation; or N in adverbial case + V in imperative + sentence stress on N + falling intonation Sentences containing question to be completed:

interrogative word + V + sentence stress on the interrogative word + falling intonation; or interrogative word + N + V + sentence stress on the interrogative word + falling intonation

8.3.2. The types of structure of the nucleus of intonation in the sentences containing question under consideration are as follows:

Question under consideration:

N in nominative + V + sentence stress on N + rising-falling intonation; or N in different oblique cases + V + sentence stress on N + rising-falling intonation; or V + sentence stress on the first element of V + rising-falling intonation

8.4. Observations regarding the Structure of the Nucleus of Intonation

From the examples listed on the preceding pages the following can be stated regarding the structure of the nucleus of intonation.

Of the nucleus of intonation of the <u>declarative</u>.

<u>negative</u>. <u>prohibitive</u> and <u>imperative sentence</u>. as

well as of the <u>question to be completed</u> the <u>falling</u>

intonation is characteristic.

In the case of the question under consideration the rising-falling intonation asserts itself.

There is a close relationship between the sentence stress is always on the first word of the nucleus of intonation, on the word to which prominence is given. The place of the sentence stress can change only within the word to which prominence is given, if the word to which prominence is given, if the word to which prominence is given consists of two or more syllables.

The word to which prominence is given is frequently a noun or an adjective. However, it can also be a verb, in the case of an analytic verbal form the verbal root, and in the case of a compound verb the noun or adjective having the function of the verbal root. This applies first of all to the <u>declarative</u>

sentences, as well as to the imperative sentences and to the question under consideration. In the negative sentences the negative particle, in the prohibitive sentences the prohibitive word and in the sentences containing question to be completed the interrogative word is the word to which prominence is given.

In the nucleus of intonation, in principle, the verb can be in indicative, in subjunctive, in imperative or in conditional mood. In the declarative and negative sentences the verb is always in indicative, and in the prohibitive and imperative sentences in imperative mood. In sentences containing question to be completed and question under consideration the verb can be in indicative, subjunctive or conditional mood.

The course of intonation, as a phonetic intonation marker, in itself determines only the question under consideration. To the definition of the declarative, negative, prohibitive and imperative sentences, as well as of the question to be completed - as we have seen - the course of intonation /falling intonation/ alone is not sufficient. Here different syntactic intonation markers are also required.

IV. SUMMARY

The opinions of the certain Indian and foreign authors are very different regarding the character of stress and intonation in Hindi. /Concerning this see Ralph R. Sisson's view in note 1./ The aim of my work is to remove these contrasts and to comprise stress and intonation in Hindi into a uniform system.

According to the majority of the authors stress in Hindi is unfixed. The determination of the place of stress is disturbed by the circumstance that part of the authors identify the syllables with the aksaras /characters of the devanagari script/, although on the basis of the pronunciation this is not always the case. Several authors also point out the meaning differentiating role of the stress and here they start out first of all from the fixed stress of the verbal roots. The problems of the meaning differentiating stress are discussed only by R.C. Mehrotra /pp. 81-82/ in the framework of the sentence, where the meaning differentiating role of the stress unfolds in a wide range.

On the basis of literature we cannot get a uniform picture of stress in Hindi, of its place and its function in the sentence. According to my observation made in the Hindi language territory, especially in Banaras, word stress in Hindi asserts itself in speech not very distinctly, it appreas rather as the complex of relative differences of the stressing. This seems to be supported also by the statements of H.C.Scholberg and V. Porizka quoted by me /see part 2.1./. In my opinion word stress does not exist separately in Hindi. The stress of a word, as the phonetic basis of the sentence stress, has a more important role only if the word, as a result of prominence given to it, becomes the vehicle of the sentence stress.

For the determination of the place of the sentence stress first of all correct syllabification is necessary /in part 2.2./. In our opinion - unlike the views of Rudin and several other authors - this is possible only on the basis of the phonetic form pronounced in speech and not on the basis of the aksaras. As the few examples given below also show, the number of syllables is very often not identical with the number of the aksaras.

पर्वत ehor 'house' /two aksaras/ monosyllabic;
पर्वत porvot 'mountain' /three aksaras/ disyllabic;
स्थान kohavot 'proverb' /four aksaras/ trisyllabic;

pradarsani 'exhibition' /four whole and two abbreviated aksaras/ quadrisyllabic.

The reduced inherent a at the end of the word can only be regarded as syllabic, if it is preceded by a consonant cluster. E.g.: pat-ra 'letter', cit-ra 'picture', svasth-y2 'health', etc. /In connection with this see the last paragraph of p. 22 and p. 23./

First we analysed the stress relations of the uninflected nouns and adjectives, and of the adverbs.

The stress relations of compound words, formative syllables /part 2.4./, as well as of suffixes and postpositions /part 2.5./, and laso of the verbs. verbal roots and verbal forms /part 2.6./ were discussed by us separately.

In the word to which prominence is given /uninflected noun and adjective or adverb/, consisting of
more than one syllable, the stress /sentence stress/
is on the relatively longest syllable. Thus it can
fall on any syllable of the word to which prominence
is given, if that is the longest syllable.

In Hindi from the viewpoint of the syllabic length we distinguish four grades: short open, short

closed, long open and long closed syllables. These are marked in increasing order with the following numerals:

In the case of a disyllabic word to which prominence is given the stress is on the second syllable, if that is longer, e.g.:

the stress is on the first syllable, if that is longer, e.g.:

and if the two syllables are equal in length, e.g.:

Stress of trisyllabic word to which prominence is given:

stress on the first syllable, if that is the longest:

and if one of the two equally longest syllables is at the beginning of the word:

stress on the second syllable, if this is the longest:

as well as if the second and third syllables are equal in length and longer than the first syllable; or if all the three syllables are equal in length:

stress is on the third syllable, if this is the longest: ψ

In the case of compound words the stress is on the first word of the compound word according to the rules described already:

The words linked with sandhi from the viewpoint of stress are regarded as simple /non-compound/ words:

In Hindi formative syllables can be added to the words initially as well as terminally. Of the initially added, preposition-like formative syllables especially the privative prefixes are stressed:

Another group of the prefixes, on the other hand, are generally unstressed. Such are: nu-, ti-, p -, up -, etc.

The terminally added formative syllables or suffixes - mostly of Sanskrit origin - are unstressed.

In Hindi the inflection of nouns and adjectives used as nouns is made with <u>postpositions</u>, or <u>suffixes</u> and postpositions. These are unstressed, with the exception of the suffix /-on/ of the oblique case plural, on which we can observe an impulse-like stress.

Masculine nouns:

Feminine nouns:

/suffix of plural -yan/

proti 'copy' pro-ti-yan 'copies',

peti 'belt' pe-ti-yan belts,

latrai 'war' lora-i-yan wars;

/suffix of plural -en/

bat 'talk'

ba-ten 'talks',

dukan 'shop'

du-ka-nen 'shops',

kalpana 'idea'

kal-pa-na-en 'ideas';

/oblique cases/

pra-timen 'in copy',

1 3 4 1 1 2 - ra-imen 'in war'.

du-kan men 'in shop',

2 1 3 4. kəl-pə-na men 'in idea';

prati 'copy' pra-ti-yon men 'in copies',

lekhani 'pen' le-kha-ni-yon men 'in pens',

bat 'talk' ba-ton men 'in talks',

kalpana 'idea' kal-pa-na-on men 'in ideas'.

We deemed important to clarify the stress relations of the verbs, and in adetailed form, of the certain verbal forms, because none of the authors mentioned by us discussed this question in detail.

The general rule - which only in case of a few verbal forms does not hold good - is that the stress is on the verbal root, and in the case of verbal roots consisting of two or more syllables the stress is on the last syllable of the verbal root. We get the verbal root if we leave off the terminal -na of the infinitive.

E.g.:

sunna 'to hear' - verbal root: sunsunana 'to relate' - verbal root: sunapahuncana 'to convey' - verbal root: pahunca-

In the examples on page 52 we list altogether 13 synthetic and analytic verbal forms in which all the morphologically different elements of the Hindi simple verbs occur.

Examining these verbal forms we found that among the above three categories the second /disyllabic verbal root/ and the third /trisiyllabic verbal root/ correspond in every case to the general stressing rules of the verbs, e.g.:

infinitive:

y sunana

p**a**huncana

present participle:

y sunata

pahuncata

optative:

sunaun

pahuncaun

absolutive + kar

suna kar

pahunca kar

In the case of the monosyllabic verbal roots, however, a certain differentiation can be observed. In the following three verbs the verbal root is monosyllabic, but in the first case this is a short closed syllable /sunna 'to hear'/, in the second case a long open syllable /ana 'to come'/, and in the third case a long closed syllable /dekhna 'to see'/.

When we examined the 13 verbal forms already mentioned, we found that the verbal roots consisting of one long open syllable and those consisting of one long closed syllable carried stress in every case, while the verbal root consisting of one short closed syllable did notypreserve its stress in three cases. These verbal forms are as follows:

optative: sumun

imperative,

simple: suno

imperative,

polite:

sunie

Here the stress shifts from the verbal root to the last syllable of the verbal form. These verbal forms contain by their nature a certain degree of emotion.

(See also what her been said on 1990, 52-53.)

The Hindi language /very likely partly on the direct or indirect influence of Persian and other languages/ expresses many verbal concepts with compound verbs /noun or adjectiv + simple verb/ /see part 2.6.4./. As a result of the increased analytic character, the clarification of the stress relations of the certain verbal forms is here even more important.

These verbs were examined by us on the basis of the same 13 verbal forms as in the case of the simple verbs. /See the first paragraph on page 52./ In this case we observed that the vehicle of stress was the noun or adjective having the function of the verbal root in all variants of the compound verbs. The different verbal forms of these verbs, just like the analytic verbal forms of the simple verbs, are comprised

by the stress into a larger stressing unit.
E.g.:

bat k∂rna 'to talk' - bat k∂r r∂ha hun 'I am talking'/now/

suru kərna 'to start' - suru kərta h€ '/he/ starts'
/in general, not
just now/

səfai kərna 'to clean' - səfai kər denge 'we shall clean' /absolutive + dena as subsidi-ary verb/

10 jjit hona 'to feel ashamed'- 10 jjit ho rohe the 'they were feeling ashamed'

səmapt hona 'to end' - səmapt ho gəya tha 'it has ended'

In the compound verbs the stress is on that syllable of the noun or adjective, which would be stressed also according to the stressing rules of the nouns and adjectives, e.g.: bat 'talk', suru 'start', sofai 'cleaning', lajjit 'bashful', samapt 'completed'.

On the basis of my observations and comparative studies /works dealing with the stress relations of German. English and especially Hungarian, see pp. 61-63, as well as notes 54, 55, 56 and 57/ I have arrived at the conclusion that in the formation of sentence stress in the different languages exacly the grammatical relationships are those factors which show a great degree of parallelism. Therefore in the analysis of sentence stress in Hindi I have also chosen the grammatical relationships as a basis of starting.

I have stated that among the kinds of words the demonstrative pronoun, the interrogative pronoun, the adverb, as well as the negative particle and the prohibitive word are in general stressed. In the case of the parts of sentence, on the other hand, from the viewpoint of stress the decisive factor is, how important role the part of sentence has in the sentence.

In the following we examined the stress relations according to kinds of sentences. Here, in the frame-work of the certain kinds of sentence we give only a few characteristic examples.

Sentence stress of declarative sentences:

Yoh bat he. This is the point. /stress on the demonstrative pronoun/ Larka so raha h&. The boy is sleeping. /stress on

the word which is im
portant from the view
point of meaning,

the verbal root/

Mangal bag men hs. Mangal is in the garden. /stress
on the word which is important from the viewpoint of meaning, on the
adverb/

Raja ne ek bondor ko naukor rokha.

The king employed a monkey. /stress on the object/

Jse murkhy ko naukyr rykhna ucit nyhin hg.

It is not reasonable to employ such a fool.

/stress on the negative particle/

Voh ek hi bat hε.

It is all the same. /stress before the emphatic morpheme hi/

Coordinative complex sentence:

Ram cola goya aur phir nohin aya.

Ram has gone and did not come again. /stress in

the first sentence on the verbal root, and in the second
sentence on the negative particle/

Subordinative complex sentence:

Mitra vah he jo vipatti men kam ae.

A friend is who helps in the difficult situation. /stress in

/stress in the main
clause on the demonstrative pronoun, and in the
subordinate clause on the
word which is important
from the viewpoint of
meaning, on the noun of
the compound verb/

Exclamatory sentence: /short sentences, generally beginning with an interjection/

Sabas, gari cəl pəri!

Excellent, the car has started off! /stress on the interjection and on the word which is important from the viewpoint of meaning, on the verbal root/

Desiderative sentence:

Men canta hun ki us pustak ko na parha hota!

I wish I had not read that book!

/stress on the root of the verb expressing desideration and on the negative particle/

Imperative sentence:

Ap hindi men bat karen!

/Please/ speak in Hindi! /stress on the word to

which the demand is directed/

Indirect order:

Us se kah dijie ki cup rahe.
Tell him to keep silent.

/stress on the verbal root of the introductory sentence and on the adjectival part of the compound verb of the second sentence/

Question under consideration:

↓ Kya yah admi Mangal h&?

Is this man Mangal? /stress on the morpheme kya and on the word to which the question relates/

Question to be completed:

↓
Kaun bolta hE? Who speaks?

Kitne baje hen? What time is it? /stress always on the interrogative word/

We discussed the meaning differentiating sentence stress separately /in part 3.9./ on the one hand because of the phonemic character of the stress mentioned also by Bloomfield, and on the other hand because among the authors mentioned by us only R.C. Mehrotra deals with this question in greater detail. However, Mehrotra did not try either to systematize his statements in some form. He did not deal with the question of the generally stressed and generally unstressed kinds of words and parts of sentence, and did not tell explicitly when he was speaking about sentence stress and when about word stress.

The meaning differentiating sentence stress asserts itself in general so that the stress appears
in a different place from the usual: It shifts from
the generally stressed syllable or morpheme to the
generally unstressed syllable or morpheme; or it will
be placed from the word which is generally the vehicle of the sentence stress to some other word of
the sentence.

The first variant, when the stress shifts to a generally unstressed syllable or morpheme /suffix, formative syllable, postposition/, occurs in the case of the contrasting stress.

Kya lifafa pustak men, ya pustak par hE?

Is the envelope in the book or on

the book?

The other kind of the meaning differentiating sentence stress is, when the prominence relates to the whole of a word, to such a word which in general is unstressed.

E.g.:

Ram janta ht. Ram knows.

Ram janta ht. Ram knows /not someone else/.

Larkiyan acchi tarah khel rahi han.
The girls are playing well.

Larkiyan acchi tarah khel rahi h£n.

They are the girls, who are playing well.

Ap ka kya hal h£?

How are you?

→ Ap ka kya hal h£?

How are you /not me/?

We have stated that there is <u>sentence intonation</u> in Hindi that stress and intonation are in close relationship and that the syntactic factors also influence and in certain cases determine intonation.

The question of intonation in Hindi has so far not been dealt with systematically and in proper detail.

We have observed that as word order in the Hindi sentences is fixed, therefore intonation has here a more important meaning differentiating role than in those languages in which the word order is not fixed. This fixed word order in Hindi made it possible for us at the definition of intonation in the certain sentences to take into consideration only the course of intonation of that portion of the sentence which extends from the word to which prominence is given to the end of the sentence. This portion of the sentence is called by us the nucleus of intonation. /The explanation of the fixed word order in Hindi see Chapter 7 entitled "CHARACTERIZATION OF THE COURSE OF INTONATION IN HINDI ACCORDING TO KINDS OF SENTENCES", pp. 107-109./

we have stated that in Hindi the course of intonation in the nucleus of intonation of the <u>declarative</u>, <u>negative</u>, <u>prohibitive</u> and <u>imperative</u> <u>sentences</u>,

as well as of the sentences containing <u>question</u> to be

<u>completed</u> is <u>falling</u>. Here we give only a few characteristic examples on the types of intonation in the

different sentences. I discuss the intonation of the

declarative sentences on pages 110-111, and the intonation of the <u>negative</u>, <u>prohibitive</u> and <u>imperative</u>

<u>sentences</u> on pages 112-113, 113-114 and 114, respec-

tively. In the framework of the intonation of <u>inter-rogative sentences</u> I dealt separately with the question of the intonation of the <u>question to be complet-ed /pp. 115-116/ and of the question under consider-ation /pp. 116-119/.</u>

Declarative sentence:

Rames book to me gives. /Rames gives the book to me./

Negative sentence:

Us ki bat thik (nahin he).

His talk correct not is.

/He is not right./

Prohibitive sentence:

Is pustak ko (na parhie)!
This book not read!

/Do not read this book!/

Imperative sentence:

Pustak ko (rakh dijie)!
Book put down!

/Put the book down!/

Question to be completed:

Yah admi (kaun he)?
This man who is?
/Who is this man?/

The course of intonation in the nucleus of intonation of the question under consideration is rising-falling.

E.g.:

Kya yah admi (Mangal hg)?
This man Mangal is?
/Is this man Mangal?/

In the model sentences regarding the nucleus of intonation we presumed three relative pitch levels, which we marked with the numerals 1, 2 and 3 under the syllables concerned. In our opinion this is sufficient for the characterization of the course of intonation in the nucleus of intonation.

If the question under consideration is directed to the action, then the nucleus of intonation is the verbal form itself expressing the action. In the case of a simple verb the stress is on the <u>verbal root</u>, and in the case of a compound verb it is on the <u>noun</u>

or adjective, which has here the function of the ver-

E.g.:

simple verb:

Kya Ram (a raha ht)? Ram coming is? /Is Ram coming?/

compound verb /noun + simple verb/:

Kya Ram (safai karne vala ha)? Ram cleaning to do prepares? /Does

Ram prepare to clean?/

compound verb /adjective + simple verb/:

Kya yah samacar ap ko (malum h)? This news you to known is?/Do you know this news?/

The sentence stress comprises here the whole verbal form into a larger stressing unit, which is at the same time the nucleus of intonation. /A more detailed elucidation of this question see on pages 123-124./

The question of the intonation markers /especially of the syntactic intonation markers/ is discussed in detail by M. Bierwisch in connection with the German language. According to my observation the nucleus of intonation in Hindi contains phonetic /see pp. 125-126/ and syntactic intonation markers /see pp. 127-132/. Phonetic intonation markers are: the sentence stress and the course of intonation; syntactic intonation markers are: of the declarative sentence the verb in indicative; of the negative sentence the negative particle nahin; of the prohibitive sentence the prohibitive words mat and ma; of the imperative sentence the verb in imperative; of the question to be completed some interrogative word /kya, kaun, kahan, kitna, etc./.

The intonation markers have an important role in the determination of the character and meaning of the intonation. The question under consideration is determined already by the rising-falling course of the intonation alone. The falling intonation, on the other hand, is equally characteristic of the declarative, negative, prohibitive and imperative sentences, as well as of the question to be completed. Therefore, here syntactic intonation markers are also required to determine the character of intonation and at the same time the character of the sentence. In the following, to illustrate the characteristic syntactic intonation markers, we give one nucleus of in-

tonation each for every kind of sentence, each of which contains the syntactic intonation marker characteristic of the kind of sentence concerned. /The detailed elucidation of the problem see on pages 128-132./

Declarative sentence:

(pustak ko + parh raha he) noun + verb in indicative

Negative sentence:

(nahin + janta hun) negative particle + verb

The negative particle nahin at the first place, is
the vehicle of the sentence stress.

Prohibitive sentence:

(mot + jao) prohibitive word + verb in imperative
The prohibitive word at the first place, is the vehicle of the sentence stress.

Imperative sentence:

Here the common element, the syntactic intonation marker is the <u>verb in imperative</u>.

Question to be completed:

$$\left(ky\overline{a} + k\partial rt\overline{a} h\xi\right)$$
 interrogative word + verb

At the first place the interrogative word, which is the vehicle of the sentence stress.

On the basis of the examples given we systematized the various types of structure of the nucleus of intonation containing rising-falling intonation and of the nucleus of intonation containing falling intonation /see in detail on pages 132-136%. The observations made this way can be utilized also in the practical teaching of Hindi.

On the basis of what has been expounded in the present thesis. I feel that with the formulation of the nucleus of intonation as a phonetic concept I have succeeded in including sentence intonation and sentence stress in Hindi into one uniform system, which shows the close relationship of stress and intonation. The fact, on the other hand that we started out from syntactic-semantic relationships makes it possible to define the certain kinds of sentences from the structure of the nucleus of intonation.

V. PARTIAL REFERENCE MATERIAL

In the following we give three Indian tales in Hindi and in Hungarian version. The tape-recorded texts of the tales in Hindi are also at disposal. The speaker is Mr. Dhodhi. Indian engineer /Gaya, Bihar State/. In the certain tales we marked the nucleus of intonation only in a few more characteristic sentences, indicating the sentence stress and the course of intonation. The continuous text gives a good idea of the characteristic stress and intonation in Hindi.

1. Raja aur bandar

Pracin səməy men ek raja tha. Raja ne ek (bəndər ko naukər rəkha). Raja ke məntri ne kəha - "Məharaj!

Bəndər (murkhə hota hɛ). Ese murkhə ko naukər rəkhna ucit nəhin hɛ." Raja ne məntri ki bat (nəhin mani).

Ek din raja so raha tha. Bandar pankha jhal raha tha. Udhar se ek makkhi ai. Makkhi raja ki nak par beth gai. Bandar gusse men ek int laya. Us ne man men soca ki is makkhi ko mar dalunga. Bandar ne krodh men int uthai aur makkhi par phenki. Makkhi ur gai aur int raja ki nak par lagi. Raja (mar gaya). Yah samacar sare nagar men phela. Sab logon ne kaha ki murkha ko naukar rakhna ucit nahin he.

In the above tale we find in general short declarative sentences and a few negative sentences. E.g.:

Raja ne ek (bandar ko naukar rakha).
The king employed a monkey.

Bandar (murkha hota he).
The monkey is stupid.

Raja ne mantri ki bat (nahin mani).
The king did not listen to the words of the minister.

Rājā (mər gəyā).
The king died.

1. The King and the Monkey

In the old time there was a king. The king employed a monkey. The minister of the king said:
"Lord! The monkey is stupid. It is not reasonable to employ such a fool." The king did not listen to the words of the minister.

One day the king was sleeping. The monkey was moving the fan. From somewhere a fly came. The fly sat on the nose of the king. The monkey in his anger brought a brick. He thought in himself that he would kill this fly. The monkey in his rage lifted the brick and threw it on the fly. The fly flew away and the brick fell on the nose of the king. The king died. This news spread over the whole city. Everybody said that it is not reasonable to employ a fool.

2. Ser aur catur khargos

Ek jəngəl men ek ser rəhta tha. Ser roz sekron janvəron ko (mar dalta tha). Janvər ser se təng a gəye the. Ek din jəngəl ke sare pəsu ikətthit hue.

Unhon ne ser se kəha - "Jəngəl ke məharaj! Ek bat həm logon ki man lijie!" Ser bola - "Kya kəhna cahte ho?" Rich ne kəha - Məharaj! Həm men se ek janvər roz ap ke pas a jaega. Us ko kha kər ap əpni bhukh sant kər liya kəren. Is se ap ko sikar khojne men kəst nəhin hoga.." Ser ne kəha - "(Thik he). Kəl se ek janvər roz mere pas a jaya kəre!" Is ke bad prətidin ek janvər (ser ke pas cəla jata tha).

Ek din ser ke pas jane ke lie khərgos ki bari ai.

Khərgos ne əpna pran bəcane ki ek yukti soci. Khərgos bəhut der se ser ke pas pəhunca. Ser bhukha tha.

Khərgos ko dekh kər use (bəhut krodh aya). Vəh bola
"Tujhe kha kər kya mera pet bhərega? Ek to chota janvər aur itni der se aya hɛ?" Khərgos ne kəha -"Məharaj!

Mera əpəradh nəhin hɛ. Raste men (dusra ser mil gəya tha). Us ne mujhe pəkərna caha. Mɛn kisi tərəh bhag kər ap ke pas a səka hun." Ser ne kəha - "Is jəngəl men dusra ser kəhan se a gəya?" Khərgos ne kəha - "Vəh əpne ko jəngəl ka raja bəta rəha tha." Yəh sun kər ser dəharne ləga. Ser ne kəha - "(Cəlo)! Pəhle mujhe ?

us ser ke pas le colo! Men use mar kor jongol se nikal dunga." Khorgos ser ko ek kuen ke pas le kor bola "Is kuen men voh ser rohta he." Ser ne jhank kor kuen men dekha. Kuen men pani tha. Pani men (ser ki porchain por rohi thi). Ser ne us porchain ko dusra ser somjha.

Ser krodh men doharne loga. Dohar kor bola - "Tu mere rajyo men (kis se puch kor aya)? Men obhi tujhe dond dene a roha hun." Kohre-kohte ser kuen men kud pora aur pani men dub kor mor goya. Khorgos ne opne sathiyon ko sob bat sunai. Sun kor hiron bola - "Khorgos bhai, opni buddhi se tum ne hom sob ke pran boca lie.

Socmuc duniya men sob se bori buddhi hi he."

The second tale is already longer and the sentences in it are also longer. However, here and there sentences consisting of one word can also be found in it. In such cases the intonation adjusts itself to the stress relations of the word. E.g.:

Vah roz sekron janvaron ko (mar dalta tha).
This every day killed hundreds of animals.

(Thik ha).
All right.

Is ke bad protidin ek janvor (ser ke pas cola jata tha).

Hereafter every day an animal went to the lion.

Khargos ko dekh kar use (bahut krodh aya).
Seeing the rabbit he got very angry.

Raste men (dusra ser mil gaya tha).

On the way I met another lion.

(calo)! Let us go! /Go!/

Pani men (ser ki parchain par rahi thi).

On the water fell the reflection of the lion.

Tu mere rajya men (kis se puch kar aya)?
Whom did you ask when you came to my realm?

2. The Lion and the Cunning Rabbit

In a forest there lived a lion. He every day killed hundreds of animals. The animals became embittered because of the lion. One day all the animals of the forest gathered. They said to the lion: "Lord of the forest! Listen to our word!" The lion said: "What do you want to say?" The bear said: "Lord! Every day one of us will come to you. Devouring that one you may satisfy your hunger. By this you will have no trouble with the tracing of the game." The lion replied: "All right. From tomorrow daily one animal should be sent to me." From this time every day one animal went to the lion.

One day the rabbit's turn came to go to the lion. To save his life, the rabbit thought a trick. The rabbit came very late to the lion. The lion was hungry. Seeing the rabbit, he got very angry. He said: "If I eat you, will my stomach be filled? Such a small animal and it came so late?" The rabbit replied: "Lord! It is not my fault. On the way I met another lion. He wanted to catch me. Somehow I could run away and came to you." The lion said: "From where came another lion to this forest?" The rabbit replied: "He called himself the king of the forest." Hearing

this the lion started to roar. The lion said: "Come! First you take me to that lion! Beating him, I shall throw him out from the forest." The rabbit took the lion to a well and said: "That lion lives in this well." The lion looked into the well. In the well there was water. The lion's reflection fell on the water. The lion thought the reflection was the other lion. The lion in his anger started to roar. Roaring he said: "Whom did you ask when you came to my realm? Now I am coming to punish you." Saying these the lion sprang into the well and submerging in the water he died. The rabbit told the whole story to his companions. Hearing it, the stag said: "Brother rabbit, with your wisdom you saved the lives of all of us. Really, in the world the greatest thing is wisdom."

3. Calak murga

Ek lomrī jangal ki or ja rahī thi ki us kī nazar per ki dāl par bēthe ek murge par parī. Yah socne lagī, is murge ko mar kar khana cahie, par pakrun to kēse? Murga per par hē aur mēn zamīn par.

Lomri əpne mən men kuch soca aur phir murge se boli -"Əre bhai! Tum ne aj jəngəl ka dhindhora (nəhin suna)? Mɛn to əbhi dhindhora sun kər hi (dər-bhəy ke bina əpne ghər ja rəhi hun)."

Murge ne lomri se pucha - "K¿se dhindhora?" Iomri ne kaha - "Vah! Jangal ke raja (ser ne hi to dhindhora pitvaya tha). Jangal ke sabhi jivon ko dhindhora ka pata ha aur tumhen nahin malum? Das roz se lagatar sabha ho rahi thi, jis men sare sansar ke pasu ikattha hue the. Sabha men sab ne sapath khai ki ham log ab se apas men milkar rahenge aur ek dusre ko na sataenge. Ek pratigyapatra bhi likha gaya ha aur sab ke hastaksar kar cukne par raja sinh ne us par apni muhar laga di ha."

Lomrī kī in baton ko sun kər murga gərdən utha kər ɛsa kurkuraya mano kisi sikari pəsu ko dekh rəha ho. Lomrī ne pucha - "Tum idhər-udhər kya dekh rəhe ho?"

Murge ne koha - "Kuch nohin, kevol de sikari kutte idhor a rohe hen."

Itna sun kar lomri (bhagne ko hui).

Murge ne lomri ko bhage dekh pucha - "Kyon, kyon, kahan ja rahi ho? Thaharti kyon nahin? db to darne ki koi bat nahin he."

Lomrī ne uttər diya - "Bat to thīk h£, pərəntu kəhīn in sikarī kutton ko tumharī tərəh dhindhora pitne ka pəta nəhīn ho, to?"

The sentences of the third tale are even more diversified than those of the former two. Naturally, here we have indicated the stress and intonation types in the nucleus of intonation only of a few simple sentences, E.g.:

Tum ne aj jongol ka dhindhora (nohin suna)?

Did you not hear today the proclamation of the forest?

Men to abhi dhindhora sun kar (dar-bhay ke bina appne ghar ja rahi hum).

Having heard the proclamation, I am going home without fear.

Jangal ke raja (ser ne hi to dhindhora pitvaya tha).

The proclamation was promulgated by the king of the forest, the lion.

Itna sun ker loar (bhagne ko hui).
Rearing this the fox ran away.

Itna kah lomr jangal d or (tezi so bhagi).

aying this the fox ran fast towards the forest.

3. The Cunning Cock

her glance fell on a cock sitting on a branch of a tree. he began to think: this cock should be killed and caten, but how should I catch him? The cock is on the tree and I am on the earth.

said to the cock: "Hello brother! Have you not heared taken the proclamation of the forest? Having heared the proclamation, I am now going home without fear."

The cock asked the fox: "hat proclamation?"
The fox replied: "Excellent! The proclamation was promulgated by the king of the forest, the lion. Very animal of the forest knows about the proclamation and you do not know about it? The meeting lastend for ten days continuously, at which the animals of the whole world gathered. At the meeting everybody took an oath that from now on we shall be together and we shall not molest each other. In agreement was also written and after being aigned by everybody, Kin; Lion put his seal on it."

ing his neck, uttered such a voice as if he had seen some beast of prey. The fox asked: "May are you looking here and there?"

The cock replied as follows: "Nothing, only two hunting dogs are coming here."

running, the cock asked: "Now, how, where are you going? Why don't you wait? After all, now there is no reason to fear."

The fox replied: This is correct, but what is if semenow, as you, these hunting dogs do not know about the promulgation of the proclamation either?"

Taying this, the fox ran fast towards the forest.

VI. APPROVX /Instrumental control of the investigations/

Owing to the large area of the Hindi langua e territory, we could not expect perfectly uniform results from the instrumental control of the statements adde in my study. This was rendered difficult also by the circumstance that none of the Indian speakers at my disposal at present case from Banaras, although I based my observations first of all on Hindi as spoken in Banaras. In pite of this - considering the above circumstances as well as the fact that the model sentences were read by the speakers and this is not identical with spontaneous speech - in my opinion the results of the instrumental control can be regarded as positive.

follows. First I prepared summarized lists of the characteristic model words and model sentences in my study. This material was tape-recorded in the monetic Laboratory of the Institute for Linguistics of the Hungarian Academy of Ciences. The speaker was Chri Amar Kumar Sinha, Indian scholarship-holder /Delhi/. Following this the recording of the stress relations of the tape-recorded saterial was made with

an instrument recording the level of the sound pressure on recording paper tape, similarly in the above thonetic Laboratory.

The evaluation of the material recorded this way was made according to figures or model words and model sentences. After the certain figures or diagrams I always give the result of the evaluation, and then—in case this seems to be necessary—I summarize briefly the eventual final conclusions to be drawn from the results received. The different sound pressure levels of the certain syllables are given by me in the percentage of the full breadth of the recording paper tape, so that the full breadth of the rescording paper tape in 100.

As for the measuring, or instrumental control of intonation the adequate instrument was, for the time being, not available in the Phonetic Laboratory, therefore the results of the relevant evaluations will be presented by me later on, on the occasion of the defence of my the is.

Mis. 1

troe of disyllable word to which prominence is

F15. 1

po-ta 'aldress', 'trace'

open yllable /-ta/.

Sound pressure level: on the second syllable about 49 %, on the first syllable about 42 %.

Mg. 2

Mise 2

↓ ad-mI 'man'

long closed syllable /ad-/.

ound pressure level: on the first syllable 70 %, on the second syllable about 57 %.

Mg. 3

Mg. 3

pra-ti 'copy'

Stremmaccording to expectation on the first, short open syllable /pro-/.

Sound pressure level: on the first syllable 55 %, on the second syllable about 36 %.

P15. 4

stress of trisyllabic word to which prominence is given

Mg. 4

war-ya-lay office'

Stress according to expectation on the first, longest syllable /long closed syllable, kar-/.

found presoure level: on the firs syllable about

62 ,

on the second syllable about

51 .

on the third syllable from 50 , decreases to 0.

Pig. 5

F16. 5

↓ na-no-vI 'human'

open cyllable /aa-/

ound pressure level: on the first syllable about 70 %,

from here it decreases to 60, then to 55 % and finally to 0.

P15. 6

o-nun-ya 'mu'

est syllable /short closed syllable, nue-/.

ound pressure level: on the second syllable about 74%, on the first syllable about 62%, and on the third syllable about 60%.

Fig. 7.

veria-ma 'trousers'

Stress according to expectation on the second syllable /-ja-/. All the three syllables of the word are equal in length, long open syllables. In the case of syllables equal in length according to the rule the stress is on the penultimate syllable.

Sound pressure level: on the second syllable 70 %,
on the first syllable about
54 %,
and on the third syllable from
about 50 % it rapidly decreases
to 0.

so-ma-car 'news'

Stress according to expectation on the last, longest syllable /-car/. According to the general stressing rules the stress is on the last syllable, if this is the longest. In the present case the last /long closed/ syllable not only relatively but also in its absolute value belongs to the category of the longest syllables in Hindi /it is marked with 4/.

Sound pressure level: on the last syllable 71 %,
on the first syllable starting
out from 0 it increases steeply
and on the second syllable it
reaches 61 %.

Stress of compound words

Fig. 9

lakh + p∂-ti 'millionaire'

Stress according to expectation on the first word /lakh/. According to the general stressing rules the first word of the compound words is the vehicle of the stress.

Sound pressure level: on the first, monosyllabic word about 72 %,

on the first syllable of the second word already only 28 %,

and on the second syllable of the second word 20 %.

ma-ha + ja-nI 'usury'

Stress according to expectation on the second, long open syllable of the first word /-ha/. This corresponds to the general stressing rules, according to which the longest syllable of the first word of the compound word is the vehicle of the stress.

Sound pressure level: on the second syllable of the first word 70 %, on the first syllable of the first word about 58 %, in the second word the highest sound pressure level is already only about 54 % and from this it decreases first gradually and then rapidly to 0.

sa-hit-ya + prem 'love of literature'

Stress according to expectation on the first, long open syllable of the first word /sa-/. This corresponds to the stressing rules of the compound words, according to which that syllable of the first word is the vehicle of the stress, which would be stressed according to the stressing rules of the simple words, quite apart from the fact that there is also a longer syllable in the second word /prem, long closed syllable/.

Sound pressure level: on the first syllable of the first word about 61 %, on the second syllable or the first word about 55 %, and on its third syllable about 40 %; in the second word the sound pressure level rises again, to about 53 %, from where it gradually decreases to 0.

F1b. 12

Stress of the words linked with sandhi

Fig. 12

pros-not-ter 'question-answer'

Stress according to expectation on the second, longest syllable /-not-/. According to the general stressing rules the words linked with sandhi are stressed in Hindi as if they were simple words. Thus the longest syllable of the whole word /long closed syllable/is the vehicle of the stress.

Sound pressure level: on the second syllable about

63 %,

on the first syllable 60 %, and

on the third syllable about 45 %.

Fib. 13/a

Stress of prefixes

Privative prefixes /are stressed/

Fig. 13/a-

dur + da-sa 'disaster'

Stress on the privative prefix /dur/, as it should be according to the rule. Here the privative prefix is a short closed syllable, still this is the vehicle of the stress in spite of the fact that the second syllable of the word following it is a long open syllable /-sa/, longer than the syllable of the privative prefix.

Sound pressure level: on the privative prefic about 69 %,

on the first syllable of the word dasa about 60 %, and on its second syllable 49 %.

Fib. 14

be- be + I-man 'deceitful'

Stress according to expectation on the privative prefix /be/ in accordance with the relevant stressing rules. The syllable of the privative prefix /long open syllable/ is the vehicle of the stress in spite of the fact that the second syllable of the word following it /-man/ is a long closed syllable, so it is longer than the privative prefix.

Sound pressure level: on the privative prefix 70 %,
on the first syllable of the
word iman 60 %, and
on its second syllable with small
fluctuations it continues to decrease to 0.

Other prefixes /unstressed/

Fig. 15

∂-nu- ∂-nu + bh∂v 'experience'

Stress according to expectation is on the word following the prefix. This corresponds to the relevant stressing rule.

Sound pressure level: on the word bhov about 68 %, on the first syllable of the prefix 3-nu it rises steeply without a perceptible transition and on its second syllable it reaches 65 %.

Fib. 16

əpə- əpə + rādh 'crime'

Stress according to expectation on the word following the prefix. This is in accordance with the general stressing rules.

Sound pressure level: on the word <u>radh</u> about 75 %, on the prefix it rises in two grades, first to 31 % and then to 51 %.

Suffixes /unstressed/

Fig. 17

-tā ko-vi + tā 'poem'

Stress according to expectation on the first syllable /ko-/ of the word preceding the suffix, in spite of the fact that the suffix -ta is a definitely longer syllable /long open/ than the short open syllable carrying the stress.

Sound pressure level: on the first syllable of the word kovi about 65%, on its second syllable about 35%, and on the suffix -ta already only about 11%.

Mg. 18

-hīn sək-ti + hīn 'powerless'

Stress in accordance with expectation on the first, longer syllable /sak-/ of the word preceding the suffix. The suffix -hIn is not stressed in spite of the fact that this is the longest /long closed/ syllable.

Sound pressure level: on the first syllable of the

word sokti 60 %.

on its second syllable 42 %, and

on the suffix -hIn about 46 %,

which after several small fluctuations decreases steeply to 0.

The suffixes and postpositions are in general unstressed, with the exception of the suffix -on of the oblique case plural, on which generally stress can be observed:

Fig. 19

ghar men 'in house'

Stress on the noun. The postposition men is unstressed in spite of the fact that this is the longest syllable /long closed/. This corresponds to the general stressing rules.

Sound pressure level: on the noun ghar 70 %,

on the postposition men from
about 50 % it decreases with
small fluctuations to 0.

ma-nus-ya men 'in man'

Stress on the second, longest syllable /-nus-/ of the noun manusya, which is a short closed syllable, and not on the postposition men, which is otherwise the longest /long closed/ syllable. This is in accordance with the general rule according to which the postpositions are unstressed.

Sound pressure level: on the second syllable of the word manusya about 68 %, on its first syllable the sound pres-

sure level steeply rises almost without a break to about

55 %, and the sound pressure

level of the third syllable is

50 %.

On the postposition men the sound pressure level decreases from 41 % with small fluctuations to 0.

Fib. 21

gha-ron men 'in houses'

The speaker from Delhi stresses the first syllable /gha-/ and pronounces the suffix -on or the syllable -ron with secondary stress. Although, as I mentioned in the introductory part of the Appendix, on account of the large area of the Hindi language territory such differences occur according to the geographic regions and sometimes also according to individuals, on the basis of my observations the stressing of the suffix -on in continuous speech is more general. This is shown also by the pronunciation of a speaker from Allahabad. In fact, Allahabad is geographically much nearer to Banaras than Delhi, and a great part of my observations were made in Banaras. The slight fluctuation can be attributed to territorial differences. The tape-recording in connection with this is available.

Sound pressure level: on the first syllable of the word about 71 %, then after a certain falling the sound pressure level rises again on the syllable containing the suffix -an, to about 68 %, and on the postposition men it is already only about 45 %, and after several smaller fluctuations decreases

(2

mo-nus-you men 'in men'

According to the pronunciation of the speaker from Delhi the stress is on the first syllable. However, a stress of amost equal strength is also on the syllable -you containing the suffix -on. Otherwise the statements made in connection with figure 21 apply also to this fluctuation of territorial character.

Sound pressure level: on the syllable mo- 70 %, on the syllable -yon 68 %.

Fig. 23/a

Feminine nouns:

/suffix of plural nominative -yan/

Fig. 23

Fig. 23/a

↓ la-ra-I 'war' l∂-rā-i-yān 'wars'

Stress on the syllable -ra- in both the the nominative singular and in the nominative plural. The suffix -yan of the nominative plural is unstressed. This agrees with the general stressing rules, according to which the suffixes are unstressed.

Sound pressure level: on fig. 23 the highest sound pressure level is on the second syllable /-ra-/ of the noun laral, 78 %, on the first syllable it is about 65 % and on the third syllable 63 %; on fig. 2½ the highest sound pressure level is similarly on the syllable -ra-, about 78 %, on the first syllable it is 61 %, on the third syllable /-i-/ a-bout 65 %, and on the suffix -yan from about 56 % with several fluctuations it rapidly decreases to 0.

/suffix of nominative plural -en/

Fig. 24

Fig. 25

bat 'talk'

ba-ten 'talks'

In fact the stress is in both cases on the same syllable, more precisely in the plural the first syllable is not bat, but ba-. The suffix -en of the plural is unstressed. This corresponds to the general stressing rules.

Sound pressure level: on fig. 25 on the word bat 79 %; on fig. 25 the highest sound pressure level is on the syllable ba-, about 75 %, and on the syllable -ten containing the suffix -en it is about 45 %.

/oblique cases/
Fig. 26
la-ra-Tomen 'in war'

Stress according to expectation of the two long open syllables equal in length on the penultimate syllable, on the syllable -ra-. In accordance with the general stressing rules the postposition is unstressed.

Sound pressure level: highest on the second syllable /-ra-/, about 76 %, on the post-position men it is about 63 %.

Fig. 26/a

Fig. 25/a

la-ra-i-yon men 'in wars'

The speaker from Delhi places the stress on the syllable -ra-. This is also a difference of territorial character, to which the statements made in connection with fig. 21 apply.

Fig. 29 3/

Fig. 30 31/a

Question of stress on the verbal roots

/With a few exceptions the verbal root is always the vehicle of the stress. If the verbal root consists of two or more syllables, then the stress is always on the last syllable of the verbal root./

Fig. 29 3/

Fig. 30 31/a

sunna 'to hear'

verbal root: sun-

Stress according to expectation on the verbal root sun—and not on the formative syllable —nā, which is a longer syllable /sun— is a short closed syllable and —nā is a long open syllable/. The result to be read from the figures corresponds to the general stressing rules on verbs.

Sound pressure level: on the verbal root <u>sun-</u> 70 %, and on the formative syllable <u>-na</u> only about 55 %.

Fig. 32/a

Fig. 32/a

sunana 'to relate'

verbal root: suna-

Stress according to expectation on the second syllable /-na-/ of the verbal root suna-. The result to be read from the two figures above corresponds to the general stressing rules on verbs.

Sound pressure level: on the syllable -na- of the verbal root /fig. 31/ about 74 %, on the first syllable of the verbal root 40 %, and on the formative syllable -na of the infinitive 60 %;

on fig. 32 on the second syllable /-na-/ of the verbal root about 62 %, and on its first syllable about 40 %.

Fig. 33/a

Fig. 35/a

pahuncana

verbal root: pahunca-

Stress according to expectation on the last syllable /-ca-/ of the verbal root pohunca-. The result to be read from the two figures above corresponds to the general stressing rules on verbs.

Sound pressure level: on fig. 33 the sound pressure level is the highest on the last syllable /-ca-/ of the verbal root, about 72 %, and on the formative syllable -na of the infinitive it is about 54 %; also on fig. 3/4 which shows the verbal root pahunca-, the sound pressure level shows a rising tendency and it is the highest on the last syllable, about 65 %.

Fig. 35-34

Fig. 36-35

can

The stress shifts to the last syllable of the verbal form only from the verbal roots consisting of one short closed syllable /monosyllabic verbal roots/ in the case of the following three verbal forms, which by their nature carry a certain degree of emotions working to the following three per consisting of one short closed syllable /monosyllabic verbal roots/ in the case of the following three verbal forms, which by their nature carry a certain degree of emotions working to the following three verbal forms, which is the carry a certain degree of emotions were the first than been expounded on pp. 52-53:

optative:

sunun

Stress on the last syllable of the verbal form.
Sound pressure level: on the last syllable about 68 %.

Fig. 35

imperative,

suno

simple:

Stress on the last syllable of the verbal form.

Sound pressure level: on the last syllable about 66 %.

Fig. 36

imperative,

polite:

↓ sunie

The speaker from Delhi placed the stress here on the first syllable. However, in the pronunciation of the Allahabad speaker already mentioned the stress was on the last syllable also in this case. Otherwise in the speech of Hindi speaking Punjabis and in speech containing a certain emotion the stress shifts to the last syllable of the verbal form also here.

In the case of compound verbs /noun or adjective +
simple verb/ the noun or the adjective is the vehicle
of the stress

Fig. 38

Fig. 39

bat korna 'to talk'

'to talk' bat kar raha hun 'I am talking'

According to the above two figures the stress is always on the noun <u>bat</u>. This corresponds to the general stressing rules of the verbs.

Sound pressure level: on the noun bat on fig. 37 75 %, and the next highest sound pressure level is on the verb karna, 60 %;

on the noun bat on fig. 38 about 73 %, and the highest sound pressure level on the verbal form following it is about 72 %.

Fig. 4D

Fig. 4D

samapt/hona 'to end'

səmapt/ho gəya tha 'it has ended'

According to the testimony of the above two figures, the stress is always on the adjective somapt. This corresponds to the general stressing rules of the verbs. The vehicle of the stress is the second syllable /-mapt/ of the word somapt, which is longer than the first syllable.

Sound pressure level: according to fig. 30 on the second syllable of the adjective samapt about 75 %, on its first syllable about 40 %, and on the first syllable of the auxiliary verb hona about 59 %;

according to fig. 40 on the second syllable of the adjective samapt about 76%, on its first syllable about 42%, and on the elements of the compound verb following the adjective the highest sound pressure level is about 73%.

Examples for the sentence stress in various kinds of sentences /the demonstrative pronoun, the interrogative pronoun, the adverb, the negative particle and the prohibitive word are in general stressed, of the parts of sentence the more important part of sentence is stressed/

Sentence stress of declarative sentence

Fig. 44

Yah bat ha. This is the point.

Stress according to expectation on the demonstrative pronoun yah.

Sound pressure level: on the demonstrative pronoun yah about 76 %, on the word bat about 30 %, and on the verbal form he also 30 %.

Larka so raha ha. The boy is sleeping.

According to the figure stress can be observed on the first syllable of the noun larka, as well as on the verbal root so, but in the part of the analytic verbal form following the verbal root so the sound pressure level falls much more definitely than on the second syllable of the noun larka. Thus the stress of the verbal root is more conspicuous.

Sound pressure level: on the first syllable of the noun larka 70 %, and on its second syllable about 65 %; on the verbal root so 70 %, and on the further part of the verbal form it reaches only about 51 %, and then it rapidly decreases.

Sentence stress of coordinative complex sentence

Fig. 4B

Ram cola gova aur phir nohin aya.

Ram has gone and did not come again.

Stress according to expectation in the first sentence on the verbal root, and in the second sentence on the negative particle.

Sound pressure level: in the first sentence it is the highest on the verbal root

cola, about 78%, in the beginning of the sentence about 69%, and on the verbal part of the sentence following cola it is about 74%;

in the second sentence the sound pressure level is highest on the first syllable of the negative particle nahln, about 70%, on the second syllable of the negative particle it is already only 60% and this further decreases up to the end of the sentence.

Sentence stress of subordinative complex sentence

Fig. 44

Mitra vah h£, jo vipatti men kam ae.

A friend is who helps in the difficult situation.

Stress according to expectation in the main clause on the demonstrative pronoun vah, and in the subordinate clause on the word important from the viewpoint of meaning, viz. on the noun of the compound verb.

Sound pressure level: in the main clause on the demonstrative pronoun vah 70 %, and on the verbal form he following the demonstrative pronoun 50 %;

in the subordinate clause on the noun of the compound verb, viz. on the word kam about 64 %, on the words of the subordinate clause preceding this the sound pressure level reaches with fluctuation about 61 %, and on the verbal part ae following the noun kam it is already only about 45 %, with a decreasing tendency towards the end of the sentence.

Sentence stress of exclamatory sentence

Fig. 45

Sabas, garī cal pari! Excellent, the car has started off!

Strong stress on the interjection sabas 'excellent'. The stress of the verbal root is expressed by the speaker so that he makes a short break before the verbal root cal and he does not stress the terminal part of the verbal form, the word part. Thus the whole sentence is divided more or less into three stressing units, viz. interjection + noun gart + compound verbal form introduced by the verbal root cal.

Sound pressure level: highest on the first syllable

of the interjection, about 78 %;

on the first syllable of the

noun garl about 71 %, and on its

second syllable about 66 %;

after a short, but definitely per
ceptible break on the first e
lement of the analytic verbal

form, on the verbal root col a
bout 61 % and on the secon ele
ment of the verbal form already

only about 39 %.

Sentence stress of desiderative sentence

Fig. 46

Men cahta hun ki us pustok ko no porhta hota!

I wish I had not read that book!

In the part expressing desideration the speaker placed a stronger stress on the word men 'I', but he pronounced also the verbal part of the clause with a high sound pressure level. The negative particle is in the last stressing unit of the sentence. This part of sentence is separated from the preceding part with a short break, which gives a definite emphasis to the negative particle no immediately following it. The last sentence section is no parhta hota. Within this sentence section the stress is on the negative particle no.

Sound pressure level: in the part expressing desider—
ation is the highest, viz. 72 %,
70 % and about 73 %; and in the
last sentence section expressing
the reason of the desideration
on the negative particle n2 a—
bout 57 % and from here the sound
pressure level definitely falls
to about 45-46 %, and further
to about 25 %.

Sentence stress of imperative sentence

Fig. 47

Ap hind men bat koren! Speak Hindi!

Stess according to expectation on the word hind! or on the word to which the demand relates.

Sound pressure level: strongest on the first syllable of the word hind, about 73 %, on the word ap, introducing the sentence about 57 %, and in the part following the postposition men 51 % and about 42 %, respectively.

Stress of indirect order

Fig. 4%

Us se koh dījie ki cup rohe.
Tell him to keep silent.

Stress on the first element of the analytic verbal form /absolutive + subsidiary verb/ in the introductory sentence, viz. on the root of the main verb /kah/ and on the adjectival part of the compound verb in the second sentence /cup/.

Sound pressure level: in the introductory sentence on the verbal root ksh about 62 %, on the part preceding this about 56 %, on the subsidiary verb in imperative following the verbal root /dIjie/ from 60 % it rapidly decreases to 0; in the second sentence on the adjectival part of the verb /cup/ about 48 %, from which on the last word of the sentence it decreases to 45 % and then further to 0.

Sentence stress of question under consideration

Fig. 49

Kya yah admi Mangal he? Is this man Mangal?

Stress on the marking morpheme kya, as well as on the word Mangal to which the question relates.

Sound pressure level: on the marking morpheme kyā 71 %, and on the second syllable of the word Mangal about 66 %; the sound pressure level of the two words between kyā and the word Mangal is with a small fluctuation about 60 %, that of the verbal form he following the word Mangal from about 59 % decreases to 0.

Fib. 50

Sentence stress of question to be completed

Fig. 50

Kaun bolta hE? Who speaks?

Stress according to expectation on the interrogative word kaun. This corresponds to the general stressing rules, according to which the interrogative word is always stressed.

Sound pressure level: on the interrogative word kaun

70 %, on the next word /bolta/
about 55 % and on the last word

/he/ it decreases from 50 % to

0.

F1b. 54

Fig. 5A

Kitne baje han? What is the time?

Stress according to expectation on the interrogative word <u>kitne</u>, similarly in accordance with the general stressing rules.

Sound pressure level: on the interrogative word kitne
about 63 %, in the section of
the sentence following hereafter
the sound pressure level from
about 51 % gradually decreases
to 0.

Fig. 5%

Some cases of the meaning differentiating sentence stress

Contrasting stress: stress on the generally unstressed postposition

Fig. 53

Kya lifafa pustak men, ya pustak par ha?

Is the envelope in the book or on the book?

Stress on the marking morpheme kya, which introduces the question under consideration, as well as on the otherwise unstressed postpositions men and par.

about 74 %, on the postposition

men about 62 % and on the postposition par about 54 %.

From the above three sound pressure levels it also becomes
clear that in the longer sentences the stress of the certain
sentence sections towards the end
of the sentence gradually decreases,
but in the certain sentence sections
the stress or sound pressure
level of the word or morpheme to
which prominence is given, is

the stronges or highest.

The above sentence consists of three sections, viz. Kya + lifafa pustak men + ya pustak par he? The first section consists of one word, which carries stress, its sound pressure level is about 74 %. In the second section the sound pressure level decreases first from about 61 % to 0, and then ascending to 31 % and to 47 % it goes along towards the stressed postposition men, on which it reaches 62 %. In the third section on the conjunction ya 'or' the sound pressure level springs up, and then falling again to 0 it ascends in the last section to 37 % and 51 %, whereafter on the stressed postposition par it reaches 54 %, from where with small fluctuations it decreases to O.

In the following sentences the prominence relates to the whole of some generally unstressed word. We illustrate the meaning differentiating stress by two kinds of stressing of the same sentences.

Fig. 53

Ram janta hg. Ram knows.

Fig. 54

Ram janta ha. Ram knows.

In the first variant /fig. 5%/ the stress, although it is not strong, still it is on the first syllable of the verbal form janta, on the verbal root jan.

In the second variant /fig. 5%/ the stress quite definitely shifts to the first word of the sentence, viz. to Ram, which in this case is the word to which prominence is given.

Sound pressure level: in the variant to be seen on fig. 53 on the first syllable of the verbal form janta 71 %, on the initial word Ram 70 %, on the last word of the sentence /hE/ from 52 % the sound pressure gradually decreases to 0.

in the variant to be seen on fig. 54 the highest sound pressure level is on the word Ram. 72 %, then the sound pressure level definitely decreases on the further two words to 60 % and to 41 %.

Lorkiyan əcchi tərəh khel rəhi han.

The girls are playing well.

Fig. 56

Larkiyan acchi tarah khel rahi hen.

They are the girls, who are playing well.

On fig. 55 the stress relations are as follows:
the first word, larkiyan is on a high sound pressure
level, therafter, however, a break follows which gives
a definite prominence to the next word acchi: the
word tarah is pronounced quite together with the
word acchi and thus the sound pressure level does not
decrease as yet; then a short break follows and the
sentence continues already on a definitely lower
sound pressure level.

On fig. 56 the stress is definitely on the initial word lorkiyan, whereafter without any break the whole sentence continues on a much lower sound pressure level as compared with the previous variant.

Sound pressure level: on fig. 55 on the word <u>larkiyan</u> steeply decreases from 71 % to

O, and then after a certain break in two grades it ascends to 52 % on the second syllable of the word <u>sechi</u> and after a short break following the word <u>tarah</u>, on the terminal part of the sentence with small fluctuations it decreases from about 48 % to O.

Um - 1-1. 57

Notes

1. Ralph R. Sisson: The Description and Comparison of Stress in Southern British English and Hindi. Linguistics 68 /1971/ p. 40. These statements put side by side illustrate the problem in such and interesting way that we also quote them literally:

"... some of the statements made by the authors and in many instances their only statements are:

The author is not prepared to say it /stress/ does not exist, but he is more and more convinced that what there is is largely of foreign origin. /H. Scholberg: Concise Grammar of the Hindi Language. 14./

Although Hindi lacks phonemic word stress, and its stresses are weaker than in English, it is not an evenly stressed language, nor is its phonetic stress confined to a particular syllable. /C. Masica at al.: A Comparison of the Sounds of Hindi, Tamil and English. Bulletin of the Central Institute of English, Hyderabad 3 /1963/81./

Stress is not so prominent in Hindi as in English. However, it is sometimes phonemic and such pairs as /gə'la:/ "throat" and /gəla:'/ "melt"... distinguish only by means of stress. <u>V.Arun</u>: A Comparative Phonology of Hindi and Panjabi. 21./

... Accent, although unquestionably existing in Hindi, is much less strongly marked than in English. /S.Kellog:
A Grammar of the Hindi Language. 20/

Stress plays quite a vital part in Hindi, although not as vital as in English, or Russian, or German. /R.C. Mehrotra: Stress in Hindi, Indian Linguistics 26 /1965/ 96./

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 p. 238.
- 19. BGMH p. 13: "47. In common with most of the modern languages Hindi has only stress accent, although it is not as distictly audible as, for example, in English." See also A.P. Barannikov P.A. Barannikov: op. cit. p. 7; Dhirendra Varma: op. cit. p. 219.
- 20. A.P. Barannikov P.A. Barannikov: op. cit.

 7.0. "Barkero nousewie, rino croru rumennese
 ygapenuir, gorrense npouznocutus cir man me seno, kan
 u ygapseuesee croru. Ottorytustubul na crore ygapenue
 ne brerett za cotoro nu conpanyerun reacuoro, nu
 uzmenenus ero narentuba."

- See also V. Porizka: op. cit. p. 33.
 - 21. BGMH p. 13.
- 22. <u>H.C. Scholberg</u>: <u>op. cit.</u> p. 14: "... In Hindi quantity is rather to be observed than accent."
- 23. V. Porizka: op. cit. p. 34: "a/ It is wrong to place strong stress accent on one syllable while articulating other syllables indistinctly."
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 - 25. S.G. Rudin: op. cit. p. 259.
 - 26. Kamtaprasad Guru: op. cit. p. 65.
 - 27. Dhirendra Varma: op. cit. p. 219.
- 28. BGMH pp. 13-14; see also A.P. Barannikov P.A. Barannikov: op. cit. p. 8.
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- 30. A.P. Barannikov P.A. Barannikov: op. cit. p. 8.
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 - 39. R.R. Sisson: op. cit. p. 40.
 - 40. H.C. Scholberg: op. cit. p.14.
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 - 46. Kamtaprasad Guru: op. cit. pp. 65-66.
 - 47. Dhirendra Varma: op. cit. pp. 219-220.
 - 48. BGMH, Accent pp. 12-14.

- 49. <u>S.G. Rudin: op. cit. pp. 239-240, 242-246, 259-260.</u>
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 - 59. <u>Laziczius</u>: op. cit. pp. 176-177.
 - 60. Laziczius: op. cit. p. 177.
 - 61. Laszló Deme: op. cit. I. p. 117.
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- 65. S.G. Rudin: op. cit. pp. 242-243.
- 66. S.G. Rudin: op. cit. p. 242.
- 67. R.R. Sisson: op. cit. p. 40 says: "Mehrotra in his article "Stress in Hindi", recognizes that stress is a part of the Hindi sound system and he describes it on the word and sentence level."
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- 71. See <u>Kamtaprasad Guru</u>: op. cit. § 58, p. 66; <u>Dhirendra Varma</u>: op. cit. p. 220; and <u>S.G. Rudin</u>: op. cit. p. 242.
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