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is perhaps preferable, since timidity and de visée; Ital. linea di squardo. The straight timid are used sometimes for 'fear.'

Emotions; Mosso, Fear; GROOS, The Play of from the observer. Animals, 243 f., 283 f.; Dugas, La Timidité; | The sighting lines intersect at the centre H. CAMPBELL, Brit. Med. J., Sept. 26, 1896; of the image of the pupil made by the corner BALDWIN, Ment. Devel. in the Child and the (which is only 0.6 mm. in front of the true Race, chap. vi. § 5; Social and Eth. Interposition of the pupil). The principal sighting pret., chap vi; HARTENBERG, Les timides et line is practically identical with the principal la timidité (1901).

Sibilants: see PHONETICS.

taining to a sibyl]: Gen die Sibyllinischen in Exper. Psychol., 187; WUNDT, Physiol. Bücher; Fr. les livres sibyllins; Ital. i libri Psychol. (4th ed.), ii. 106. sibillini. The books of prophecy which Herophile, the most famous of the ancient sibyls, is Zeichen; Fr. signe; Ital. segno. (1) Anyconsulted in urgent matters.

struction of the temple of Jupiter by fire in so on ad infinitum. 83 B.C. A new collection was made, which No doubt, intelligent consciousness must has also been lost. The extant twelve books enter into the series. If the series of successive of so-called Sibylline prophecies are of later interpretants comes to an end, the sign is and mostly spurious origin.

licher Fensterversuch; Fr. (not in use-L.M.); an individual consciousness, it determines no Ital. esperimento della finestra laterale. An outward sign, but that consciousness becomes experiment in binocular contrast: standing annihilated, or otherwise loses all memory unsymmetrically with respect to a window, or other significant effect of the sign, it beobtain double images of a white surface on a comes absolutely undiscoverable that there dark ground; the single image appears faintly ever was such an idea in that consciousness; blue (blue-green) on the window side, and and in that case it is difficult to see how it faintly red (orange) on the other side. "

SANFORD, Course in Exper. Psychol., expt. so would be an interpretant of that idea.

line connecting two luminous points which Literature: DARWIN, Expression of the appear to be in exactly the same direction

(J.M.B.) ray of direction (line of sight).

Literature: HELMHOLTZ, Physiol. Optik Sibylline Books [Lat. sibyllinus, per- (2nd ed.), 115, 127, 617, 672; SANFORD, Course

said to have sold to Tarquinius Superbus, and thing which determines something else (its which were preserved by the Romans and interpretant) to refer to an object to which itself refers (its object) in the same way, the The Sibylline books were lost in the de- interpretant becoming in turn a sign, and

(A.T.o.) thereby rendered imperfect, at least. If, an Side Window Experiment: Ger. seit- interpretant idea having been determined in could have any meaning to say that that con-Literature: FECHNER, Binoc. Sehen, 511 ff.; sciousness ever had that idea, since the saying

(E.B.T.-C.L.F.) A sign is either an icon, an index, or a Sidgwick, Henry. (1838-1900.) Born symbol. An icon is a sign which would in Yorkshire, England, educated at Rugby possess the character which renders it signifi-School and Trinity College, Cambridge, he cant, even though its object had no existence; became a fellow and lecturer at Trinity such as a leaderencil streak as representing College in 1859, reader in moral science in a geometrical line. An index is a sign which 1875, professor of moral philosophy in Cam- would, at once, lose the character which bridge University, 1883. He was identified makes it a sign if its object were removed, with the movement in England for the higher but would not lose that character if there education of women, and especially with the interests of Newnham College for women, at Cambridge. His principal works are in sign of a shot; for without the shot there ETHICS (q. v.) and politics, his position in would have been no hole; but there is a hole ethics being that of a 'modified' utilitarian. there, whether anybody has the sense to at-Cf. UTILITARIANISM. He was one of the tribute it to a shot or not. A symbol is 'Consulting Editors' of this DICTIONARY. a sign which would lose the character which See an 'auto-historical' note in his Methods renders it a sign if there were no interpretant. of Ethics (6th ed.); Hayward, The Ethical Such is any utterance of speech which signifies Philosophy of Sidgwick (1901), and L. Stephen, what it does only by virtue of its being in Dict. of Nat. Biog., Sup. iii, sub verbo. understood to have that signification.

Sighting Line: Ger. Visirlinie; Fr. ligne (2) Used for Coefficient (q. v.) or Mark

Cf. LOCAL SIGN, and TEMPORAL (1) the indispensable signification; (2) the

may be compared with the more generally tion. (1) is so much as is contained in whatrecognized classification given under Sien- ever may be fixed upon as the definition of MAKING FUNCTION; they serve different the term-all those elements of the meaning purposes, and do not seem to be inconsis- in the absence of any one of which the name

PORAL SIGN, SYMBOL, and SYMPTOM.

written, spoken, &c .- of the LANGUAGE is given out-that oxygen is exhibitating is FUNCTION (q. v.), such as vocal sign, gesture informational to the student of chemistry, sign, graphic sign, &c.

in logical writing. Cf. Logical Diagram, results of the science); (4) consists of all the SYMBOL, and see the signs employed in the valid predicates of the term in question. longer logical articles, e.g. Logic, Logic When I say, 'The one I saw yesterday was (exact), TERM, and SYMBOLIC LOGIC.

aggregation and multiplication, it is recom- consciousness (usually a man, though it may mended that the traditional symbols be be a dog, or a doll) whom it has been agreed adhered to as follows:

thing which is either a or b.

(2) For multiplication, the form ab: some-APPARATUS, II (general).

Significance: see Significs (1, c).

ficato. See Connotation(2), and DENOTATION. cedents. and cf. Meaning, Significs, and Semantics.

called by Mill and others connotation and signifies; J. S. Mill uses, in place of signidenotation; for (1) the previously well-estab- fies, the term connotes, a word which he lished use of connote was somewhat warped by or his father picked up in Ockham. But Mill and his followers, and (2) these words signify has been in uninterrupted use in this may be applied to the corresponding properties of propositions as well as terms. The Salisbury spoke of 'quod fere in omnium ore application of a term is the collection of celebre est, aliud scilicet esse appellativa objects which it refers to; of a proposition significant, et aliud esse quod nominant. it is the instances of its holding good. The Nominantur singularia; sed universalia 'signification' of a term is at the qualities significantur.' Nothing can be clearer. There which are indicated by it; of a proposition it is no known occurrence of connote as early is all its different implications.

failing to distinguish between the different of appellatio relativa, and takes the relation sorts of signification, or connotation, of a term: itself as the accusative object of connotare, thus to the question, Are proper names con- speaking of 'creator' as connoting the relanotative? 'contradictory answers are given tion of creator to creature. So Aquinas, In by ordinarily clear thinkers as being obviously sentent., I. dist. viii. q. 1, Art. 1. Subcorrect,' for the reason that they have not the sequently, because adjectives were looked same thing in mind under the term connota- upon as relative terms, white being defined

(C.S.P.) banal signification; (3) the informational This division of signs, suggested by c.s.p., signification; and (4) the complete significa-(J.M.B.) would not be applied; (2) is what 'goes Sign (and Signature, in psychology). without saying, what is known to every one, (1) See Sign (1), and cf. Local Sign, Ten- and (3) is what there is occasion to give utterance to: these of course vary with the (2) Used also for the various symbols— different individuals to whom the proposition (J.M.B.) and banal to the teacher of chemistry (but Sign (logical). Any symbol employed false to those who are familiar with the latest John Peter,' the indispensable signification of In regard to the use of signs for logical John Peter is simply an individual object of to designate by that name; but the banal (1) For aggregation, the plus sign +: some-signification, to one who knows John Peter well, is very extensive.

The same characteristics apply to proposithing which is at once a and b. (C.L.F., J.M.B.) tions as well as to terms: thus the complete Signal (of Deprez): see LABORATORY AND signification (or implication) of All x is y is all its valid consequences, and its complete application (or range) is all those descrip-Signification (and Application, in logic): tions of circumstances under which it holds Ger. Bedeutung; Fr. signification; Ital. signi- good—that is to say, all its sufficient ante-

A general term denotes whatever there may These are substitute terms for what are be which possesses the characters which it as this. Alexander of Hales (Summa Theol., Great confusion has arisen in logic from I. liii) makes nomen connotans the equivalent tion. It is necessary to distinguish between as 'having whiteness,' &c., the adjective was

looked upon as connoting the abstraction, but comparison with other modes of human comtivum illud est cuius significatum non sistit Editor's Preface, viii). in se, sed necessario ad alight refertur, vel alight connotat. V.g. Rex, magister, primus.'

Significs make practically for the detection of lurking confusion or specious assertion in

of John's remark must be recognized.

Significs: Ger. Bedeutungslehre; Fr. théorie Much work is already being done in this des significations; Ital teoria delle significazioni direction. Significa as a science would (the foreign equivalents are suggested). (1) centralize and co-ordinate, interpret, inter-Significs implies a careful distinction between relate, and concentrate the efforts to bring (a) sense or Signification (q.v.), (b) mean-out meanings in every form, and in so doing ing or Intention (q. v.), and (c) significance to classify the various applications of the or ideal Worth (q.v.). It will be seen that signifying property clearly and distinctly. the reference of the first is mainly verbal (or Literature: A. Sidgwick, Distinction a

of every form of study: i.e. what is at Bedeutungslehre (1901). (v.w., G.F.S., J_M.B.) present indifferently called its meaning or sense, its import or significance.

never unless its supposed relative character munication, and to the urgent need of stimuwas under consideration. Tataretus, for lating thought by the creation of a general example, who wrote when the usage was fully interest in the logical and practical as well established, will be found using such phraseo- as the aesthetical value of all forms of exlogy as the following: 'Nulla relativa pression. And it provides a convenient secundum se habent contrarium, cum non general term under which to work perhaps sint qualitates primae, sed solum relativa for an international consensus, and for a secundum dici, et hoc secundum esse abso- natural check upon wilful waste or misuse of lutum et significatum principale eorum et the existing resources of language, by bringnon secundum esse respectivum et connota-tivum.' Chauvin (1st ed.) says: 'Connota-social and academic 'constraint' (cf. the

It unfortunately happened, as the above directions where the discipline of formal quotations show, that the precise meaning logic would help less directly and simply. recognized as proper to the word 'signify' at But it is suggested that this study, so far the time of John of Salisbury (a younger con- from superseding or displacing or even distemporary of Abelard) was never strictly tracting attention from the disciplines already observed, either before or since; and, on the recognized, would rather render them more contrary, the meaning tended to slip towards effectual because more vitally significant: that of 'denote.' Yet even now the propriety more obviously related to ordinary experience and interests. It would also bring out the A number of works were written in the moral value of a greater respect for the tradimiddle ages De modis significandi, based upon tions and the future of language, and would Priscian (a contemporary of Boethius), who in fact, while preparing the ground for an in turn followed Apollonius the bad-tempered, expansion of the limits of articulate expres-'grammaticorum princeps,' who lived in the sion, tend to create a linguistic conscience time of Hadrian and Antoninus Pius. Cf. also which must beneficially react upon thought, Thurot, Notices et Extraits des MSS., xxii. Pt. thus bringing about gradually and naturally II, and Duns Scotus, Works, Lyons ed., r. (c.s.p.) a spontaneous consensus in definition.

Literature: A. Sidgwick, Distinction and rather SENSAL, q. v.), of the second volitional, Criticism of Beliefs; KARL PEARSON, Gramand of the third moral (e.g. we speak of some event 'the significance of which cannot be Nineteenth Cent., November, 1896; Eucken, overrated'; it would be impossible in such Gesch. d. philos. Terminologie (1879); and a case to substitute the 'sense' or the 'meaning' of such event, without serious loss). Significs treats of the relation of the sign in the widest sense to each of these.

(2) A proposed method of mental training, iming at the concentration of intellectual ways and Lambda Whateley, G. Cornesiming at the concentration of intellectual ways and Lambda Whateley, G. Cornesiming at the concentration of intellectual ways and Lambda Whateley, G. Cornesiming at the concentration of intellectual ways and Lambda Whateley, G. Cornesiming at the concentration of intellectual ways and Lambda Whateley, G. Cornesiming at the concentration of intellectual ways and Lambda Whateley, G. Cornesiming at the concentration of intellectual ways and Lambda Whateley, G. Cornesiming at the concentration of the sign in the concentration of the sign in the widest sense to each of these. aiming at the concentration of intellectual WALL LEWIS, and J. S. MILL are among those activities on that which is implicitly assumed who have discussed the general subject. See to constitute the primary and ultimate value also E. MARTINAK, Psychol. Untersuch. z.

Sign-making Function: (not in use in the other languages). The selection or con-Significs affords also a means of calling struction of certain objects—the signs—in attention to the backwardness of language in order that by mentally operating with these,

results may be obtained applying to other (McCosh) the symbolic function.

signify. But the nature of the connection function to discharge, and may be dismissed. may vary so as to constitute different kinds But words and the gestures composing the of signs. We may distinguish (1) the demon- language of natural signs are constituent strative sign, (2) the discriminative sign, (3) factors of the very act of thinking of the the mnemonic sign, (4) the expressive sign, objects which they signify. They are means

and most primitive. It is used by animals as things cannot be lifted without a handle, so well as by men. It consists in some act by some objects-concepts-cannot be thought which one individual, who is interested in an of without words, or other expressive signs. object present to the senses, draws the atten- See Language Function, and cf. Speecil tion of another individual to that object. (5) The substitute or symbolic sign is anti-The second individual attends primarily to thetically opposed in its nature to the expresthe action of the first, and is thus indirectly sive sign. The expressive sign is a means of with the finger is a typical illustration.

it, made with the view of enabling us to iden- bage board is substituted for the relative the robber who made a chalk-mark on Ali solving a problem by algebraical methods, Baba's door used a discriminative sign. The when we have once assigned suitable symbols house he desired to identify in the future was to the several quantities, we need not in the so like others in the neighbourhood that he actual process think of anything but these feared it would be indistinguishable. But he symbols, and the rules of operation applying was convinced that he could always distin- to them. The equation might be solved by guish a door with a chalk-mark on it from a some one who did not know what problem it door with no chalk-mark. He accordingly represented. It is only when the solution of made a chalk-mark on Ali Baba's door. the equation is obtained that the need arises Morgiana destroyed its discriminative value to retranslate our symbols in terms of that

(3) The mnemonic sign is simply an aid to Sigwart, Heinrich Christoph Wilmemory. A is so connected with B that when helm. (1789-1844.) Born and brought up we think of A we shall probably or certainly at Remmingsheim in Würtemberg, he became think of B. Now, if B is something which Privatdocent in philosophy at Tübingen in we are in danger of forgetting, and if we 1813; professor extraordinary in 1816; and attempt to obviate this risk by arranging so ordinary in 1818. He died at Stuttgart. that the recall of A shall be practically certain | Similar (with Similarity, Similitude) at the proper moment, and thus call up the idea [Lat. similis, like]: Ger. ähnlich, gleichartig; of B when we want it, we are using A as a Fr. semblable; Ital. similare. See RESEMmnemonic sign. Some people, for instance, BLANCE. tie a string round one of the fingers to prevent their forgetting something which they predicate of some considerable logical depth. have to do. The assumption is that they will frequently notice the string round the finger, and be thereby reminded of the business which they wish to remember. The device may fail, LIRENESS (consciousness of, and law of), and either because they are oblivious of the string Resemblance. at the critical time, or because, when they do notice it, it fails to yield the required reminder see Perception, ad fin.

(4) The expressive sign is not merely, like objects—the things signified. It is also called the mnemonic, a means of calling up the idea of an object. It is a means of attending to The possibility of this procedure depends the object while it is present to consciousness. upon the existence of an appropriate con- When the mnemonic sign has reminded us of nection between the signs and what they that which it signifies, it has no longer any (5) the substitute or symbolic sign. Cf. Sign. of thinking of the object, as the handle of a (1) The demonstrative sign is the simplest box is a means of lifting it; and just as some

led to attend to something else. Pointing attending to the object signified; the substitute sign is a means of dispensing with atten-(2) The discriminative sign consists in tion to the object signified. Thus in cribbage some modification of an object or addition to the relative position of the pegs in the cribtify and distinguish it in the future. Thus number of points won by the players. In by making similar marks on the neighbouring which they signify. Working with logarithms is another example.

Similar (in exact logic): having a common Similar whole: a whole of similar parts.

Term of similitude: a general name. (C.S.P.) Similarity (consciousness of, law of): see

Similia similibus percipiuntur [Lat.]:

Simple | Lat. simplex, from sim, same, one, |

Simple agreement: the agreement of one simple. thing with another; opposed to analogy or relationship to thirds which agree.

Simple apprehension: (1) the faculty or CATE, q.v., 2).

act of apprehending without forming judg
Simple Mone (q.v., ad fin.): a term of Simple Mone (q.v., ad fin.): act of apprehending without forming judg-TION (q. v., in philosophy).

Simple COMPARISON (q.v.): the faculty or judgment are compared (cf. Century Dict.),

(C.S.P.-J.M.B.) Simple concept: a concept of which no the sense in which it is itself a part. other definite concept (at any rate, no firstintentional concept) can be predicated.

Simple consequence: (1) an inference MATTER (q. v., Aristotle's use). drawn from a single premise. This was the standard form of setting forth arguments in the scholastic writings of the middle ages. Simple proposition: simple enunciation The suppressed major premise was called the (q.v. above). Yet all categorical propositions consequentia. (2) An inference drawn from are sometimes so called. a single premise, from which the conclusion follows by virtue of the meaning of the middle either whether or what anything is, as contra-

inference from a proposition to another pro- certain character. position differing from the former only by the interchange of subject-term and predicate- (q. v. above). Petrus Hispanus says: 'Acci-

of presumption.

Simple enunciation: a proposition which is + plicare, to fold]: Ger. einfach; Fr. simple; not resolvable into copulative or disjunctive Ital. semplice. Original or first in its nature; parts. Thus, 'All men are all rational animals' elementary; without parts or complication: is resolvable into 'Every man is a rational opposed to Complex (q. v.), Compound (q. v.), animal, and every rational animal is a man.' and derived.

(C.S.P.-J.M.B.) So Every man is a rational animal is resolv-Simple acceptation: the acceptation of a term | able into Every man is rational, and every man to signify a nature abstracted from existence, is an animal.' But though perhaps every proas 'animal is the genus of man' (Century position of the form 'Every S is P' is com-(C.S.P.) posite, yet the form itself may be regarded as

Simple interpretation. In this phrase, interthe agreement of many things with many. pretation means the subject of Aristotle's Simple agreement is either essential (which is Peri hermeneias, that is to say, a SYMBOL identity in the sense of unity of essence) or (q.v.). A simple interpretation is one which accidental. Accidental simple agreement is does not have (either expressed in words or either internal or external; the former being in circumstances) one part to show what it either equality or likeness, the latter co- denotes and another to show what it signifies; that is to say, it is a term or rhema (PREDI-

ments. See Apprehension (2). (2) Intui- Locke's (Essay, II. xii. 5); a variation of one simple idea.

Simple necessity: the necessity of that act by which the subject and predicate of a whose contradictory involves contradiction (Scotus, Opus Oxon., IV. xii. 7).

Simple part: a part which has no parts in

Simple power: the same as pure power, or that passive power which belongs to first'

Simple probation: a proof consisting of a single syllogism.

Simple question: a question which asks distinguished from a complex question which Simple Conversion (q. v.): the immediate asks of a thing whether or why it has a

Simple supposition: simple acceptation dentalium suppositionum alia simplex; alia Simple enumeration: a term of Francis personalis. Suppositio accidentalis simplex Bacon's, by which he means mentioning a est acceptio termini communis pro re uninumber of instances of a's which are b's, versali significata per ipsum terminum: ut and thence concluding that every single a cum dicitur, homo est species, animal est is a b, of which he well says: 'Inductio genus.' Ockham (Logica, I. lxiv) says: 'Est quae procedit per enumerationem sim- autem primo sciendum quod suppositio primo plicem res puerilis est, et precario concludit, dividitur in suppositionem simplicem, peret periculo exponitur ab instantia contra- sonalem, et materialem. . . . Suppositio simdictoria, et plerumque secundum pauciora plex est quando terminus supponit pro quam par est, et ex his tantummodo quae intentione animae sed non tenetur significapraesto sunt, pronunciat.' It is not in tive. Verbi gratia, dicendo sic, homo est truth induction, but a singularly futile sort species, ille terminus homo supponit pro intentione animae, quia illa intentio est species,

et tamen proprie loquendo ille terminus homo of successful simulation is probably extremely ordinata in significando.'

exaggerated, but even elements that might duced by other and true organic disturbances. have value by adding to the richness of the Literature: art. Simulation of Hysteria, extreme form bareness or meagreness) of LINI, Delle Malattie simulate (1877). (J.J.) aesthetically pleasing form, as variety represents the other.

also Unity in Variety.

Saccus. He himself taught at Athens, such nonconformity or transgression. and in 529 A.D., following the edict of | Sin is to be distinguished from crime, which commentator on Aristotle's works.

VOCATION (q. v.) and LIE (q. v.).

Mental symptoms, as well as such sensory man's nature or his ability to do good. defects as colour-blindness and deafness, seem below). Simulation is generally detected by trine of Sin (1881). the overacting of the symptoms, the absence of slight accessory characteristics, and the out, + cera, wax]: Ger. Aufrichtigkeit; Fr.

non significat illam intentionem; sed illa vox small. It should be noted, however, that in et illa intentio animae sunt tantum signa sub- many cases a true abnormal condition is present (of which, indeed, the tendency to Simple syllogism: a Syllogism (q. v.) simulate or assume the symptoms is an exwhich cannot be resolved into several syllo- pression), although not the specific disease gisms, nor contains any composite proposi- which is simulated. Cases of moral insanity, and many of the borderland cases of mental Simple truth: that truth which pertains abnormality, often exhibit a tendency to to the thing itself; otherwise called 'tran- assume mental disorders which are not real. (C.S.P.) In hysteria this quasi-simulation is of an Simplicity (in aesthetics) [Lat. simplex, allied type. Hysterical symptoms are in a from sine + plico, without fold]: Ger. Ein- literal sense real and not simulated. But, fachheit; Fr. simplicité; Ital. semplicità. As on the one hand, while they are subject to aesthetic quality, the restriction of the number a variety of psychical influences, and thus and variety of parts in an aesthetic whole, in may be said to present a form of simulation the interest of unity and of ease of compre- sui generis (see HYSTERIA), on the other hand, medical writers note that many of the It excludes not only what is superfluous or symptoms exhibited in hysteria are often pro-

unity. It represents one pole (becoming in in Tuke's Dict. of Psychol. Med.; Tomel-

Sin (in ethics and theology) [AS. syn, mischief, harm]: Ger. Sünde; Fr. péché; Ital. Literature: Köstlin, Aesthetik, 94 f.; see peccato. Conscious nonconformity to or trans-(J.H.T.) gression of an ideal standard of right or duty Simplicius. Lived in the first half of as revealed in conscience or the divine law, the 6th century A.D. Taught by Ammonius together with the tendency or disposition to

Justinian closing the schools of philosophy at is a breach of eivil law, and vice, which is a Athens, emigrated into Persia, but returned breach of a social requirement, the standards disappointed. A Neo-Platonic thinker, and of which are relative. Sin can arise only in view of an ideal requirement. Therefore Simulation [Lat. simulatio, a feigning]: only God can forgive sin. In Christian theo-Ger. Simulation; Fr. simulation; Ital. simulogy there are the two profoundly different lazione: (1) MAKE-BELIEVE (q. v.); see also views of sin and its relation to the nature of man, represented by Augustinianism (q.v.) (2) Conscious perception, including Equi- and Pelagianism (q. v.); the one finding sin deeply rooted in man's nature and rendering (3) In medicine: the feigning or counter- him helpless for good, and therefore a subject feiting of the symptoms of a disease; also of sovereign grace, the other treating it as a disturbance which does not profoundly affect

Literature: besides the works of Augusespecially liable to simulation, and are often Tine and the Pelagians, see Julius Muller, counterfeited with the object of escape from Die christl. Lehre v. d. Sünde (Eng. trans.); military duty, or the consequences of a crime, JONATHAN EDWARDS, The Great Doctrine of or again for no very obvious intent (see Original Sin defended; A. Brown, The Doc-

Sincerity [Lat. sincerus, from sine, withresults of special tests. Of the various sincérité; Ital. sincerità. Disposition not to insanities, mania, melancholia, and delusional mislead others either positively or negatively. insanity (paranoia) are perhaps the most sus- | Sincerity is thus wider than veracity. The ceptible to simulation, but the number of cases sincere man aims to be truthfully understood,

whether he make positive representations or

conditio sine qua non: necessary condition. tinued light until waking. Mönninghoff and See Necessary and Sufficient Condi- Piesbergen (Zeitsch. f. Biol., 1883, 114) found

lates Gr. καθ' έκαστον]: Ger. (1) einzeln, of Sleep, J. of Exper. Med., ii. 313. (1, 2) individuell; Fr. (1) individuel, (1, 2)

a continuum is a place whose properties differ is generally stated to be accumulation of from those of all other places in the vicinity, waste matter (fatigue products) in the blood. so as to constitute in one aspect a dis-

which, during a given discussion, is not to be sleep was required for recovery. Yet fatigue treated of in separate parts is a singular or of the central nervous system is certainly individual term.

nification is not absolute, but relative to the treme exhaustion, and on the other hand discussion in hand. Thus 'my palette' may the mere slackening of mental activity is be, upon one occasion, an indivisible object, often sufficient to induce sleep without preand upon another it may be thought of as the vious fatigue. Animals almost invariably go field for many different colours. The tech- to sleep when accustomed sensory stimuli are nical definition is this: A is singular or withdrawn. There seems to be no doubt that individual if for every term whatever, x, sleep is essentially connected with alteration either no A is x or else no A is non-x; in in the conditions of the blood supply of the other words, there is nothing, x, such that A brain. can be partly x and partly non-x. A proposition containing a singular term is called deficiency in amount or nature of sleep (see a 'singular proposition.'

singularisme (suggested); Ital. singolarismo specially prolonged sleep, of which several (suggested). A term used (cf. Külpe, Introd. to cases are on record (see Trance); or, again; Philos., § 14) to characterize philosophic schools as Somnambulism (q. v.) or active sleep; or 'explaining or deducing all the phenomena as artificially induced sleep (see HYPNOTISM, of the universe from one principle; opposed and Psychic Effect of Drugs). The to pluralism. See Monism.

Sinistrality: see DEXTRALITY. Sinking Fund: see AMORTIZATION. Situation (social): see Social Status.

Skin Sensation: Ger. Hautempfindung; Slavery: see SERVITUDE.

Sleep [AS. slæp]: Ger. Schlaf; Fr. som- effects (hallucinations, &c.). meil; Ital. sonno: A normally periodic sus-

The depth of sleep was measured by Kohlnot. Honesty is often used for sincerity in schütter (Festigkeit des Schlafes, 1862), who this sense. Cf. Veracity, and Lie. (J.M.B.) found that it increased rapidly for the first Sine qua non [Lat.]. Abbreviation of hour, then became rapidly lighter, and con-(J.M.B.) a similar curve, with indication of a much Single: see Individual (different topics). shallower deepening of sleep between the fifth Singular [Lat. singulus, separate; trans- and sixth hours. See also Howell, 'Physiology

The chief cause of sleep is probably the singulier; Ital (1) singolo, (2) singolare. (1) using up of the highly organized protoplasm Applicable, as a sign, to a single individual. in the cells of the brain; during sleep this (2) In mathematics: a singular place upon loss is made good. A secondary cause (c.s.p.) dog by transfusing the blood of a tired dog Singular or Individual (in logic). A term into its veins, but he fails to tell us whether a predisposing condition. But wakefulness Like many expressions in logic, the sig-sometimes persists even in conditions of ex-(C.F.H.-J.M.B.)

Abnormalities of sleep may occur as (C.L.F.) INSOMNIA); or as excessive tendency to sleep, Singularism: Ger. Singularismus; Fr. known as sleep disease or narcolepsy; or as (J.D.) abnormal mental symptoms of sleep are considered under DREAMS (q.v.). It may be noted that mental disturbances, such as attacks of epileptic or acute frenzy, have been Skin: see Cutaneous Sensation, passim. known to occur in sleep:

Experiments on the effects of artificially Fr. sensation de la peau, sensation cutanée; induced loss of sleep have been made by Ital sensazione cutanea. See Cutaneous Patrick and Gibert on man (Psychol. Rev., SENSATION, PAIN, PRESSURE SENSATION, TEM- iii. 469), in which determinations are made of PERATURE SENSATION, Touch, and Haptics. the possible length of the waking period, the organic variations induced, and the mental

Literature: besides the papers cited, see a pension, more or less complete, of conscious general résumé of theories by DE MANACÉINE, processes, due to organic conditions. Cf. Sleep; its Physiol., Hygiene, and Psychol. (J.M.B.) (1897); DE SANCTIS, I Sogni (1899); and