

## Contents

In this issue we start to apply the section numbers of this outline to the bibliographic items listed. In some cases the reader will notice that the notations (which are put at the right upper edge) are more specific than the outline. We are gradually changing now from the current level of specificity to a deeper one; the classification system for this has been elaborated and will be published soon. It is also used to structure the INTERNATIONAL CLASSIFICATION AND INDEXING BIBLIOGRAPHY of which Vol.1, presenting the Classification Systems and Thesauri for the last 32 years was published recently. Further volumes with the reference works in our field as well as the literature on classification and indexing from the years 1950-1980 will follow in 1983 and 1984.

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95	Education and Training in Classif. & Indexing	60
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97	Economic Aspects in Classif. & Indexing	60
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\*\*\* Divisions according to Subject Groups as described and displayed in Int. Classif. 9(1982)2, p.87-93.

# 0 FORM DIVISIONS

## 01 Bibliographies

See also 8980

8745 01  
Classif.Soc., (North Amer.Branch): Classification Literature Automated Search Service. Orig. en. CLASS Vol 10, 1982. 146 p. This bibliography on numerical taxonomy of 979 articles with their citation index is produced through the help of the Institute for Scientific Information. It is distributed only to members of The Classification Society.

8746 01-6  
Aitchison, J.; Allen, C.G.; Aslib Library: Bibliography of mono- and multilingual vocabularies, thesauri, subject headings and classification schemes in the social sciences. Orig. en. Paris, FR: Unesco 1982. 101 p., Repts.and Papers in the Soc.Sci.No.54  
The bibliography lists in Pt.I 608 vocabularies and in Pt.II 368 thesauri, subject headings and classification schemes. Both parts are arranged according to the UDC. English translations are included for all source languages other than English. There is a subject index, a personal compiler index, a corporate agency index, a language index (for Pt.I only) and a database index (for Pt.II only).

## 02 Literature Reviews

See also 9055

8747 02  
Travis, J.L.; Fidel, R.: Subject analysis. Orig. en. Ann.Rev. Inform.Sci.& Technol. Vol 17, 1982. p.123-157, 205 refs. Reviews the literature of the last five years in the fields of subject analysis, classification and indexing. Subheadings: Introduction (Scope, coverage, organization, other reviews and bibliographies). Terminological control (controlled vs.uncontrolled vocabularies, problems...). Index languages (thesaurus construction and maintenance, string languages, language compatibility for integrated retrieval systems). Indexing theory and practice (Recent research, automated indexing and abstracting, new applications). Conclusions.

## 03 Dictionaries, Terminologies

8748 03-284  
Gaulard, R.: Glossaire des sciences et techniques nucléaires. (Glossary of nuclear science and technology) Orig. fr. Banque Mots, No 23, 1982. p.87-110

8749 03-82  
Gour, P.N.: Glossary of library science technical terms. Orig. en. Patna, India: Libr.Sci.Publ. 1980. 273 p.

8750 03-82  
ISO 5127/3a. Information and Documentation - Vocabulary - Section 3a: Acquisition, identification, and analysis of documents and data. Orig. en. Genf, CH: International Standardization Organisation 1981. 30 p.

8751 03-83  
Schneider, H.-J. (Ed.): Lexikon der Informatik und Datenverarbeitung. (Lexicon of computer science and electronic data processing) Orig. de. München, DE: Oldenbourg 1983. 667 p. Definitions and explanations to concepts of the said fields arranged in alphabetical order with indication of their fields, their synonymous terms, English terms and relationship indications of entailed concepts to their places of definition. There is an index of the English terms pointing to the German entries and a description of the semi-automatic establishment of the dictionary to which altogether 112 experts whose names are listed, had contributed.

8752 03-83  
ISO 2382/19 Data Processing - Vocabulary - Section 19: Analog computing. Orig. en. Genf, CH: International Standardisation Organisation 1980. 10 p.

8753 03-83  
DIN, Normenausschuß Informationsverarbeitung (NI): DIN 44300. Informationsverarbeitung. Begriffe, Entwurf. (Information processing. Draft Standard) Orig. de. Berlin, DE: Beuth Verl. 1982. 25 p., 4 tabl.

8754 03-842  
DIN, Normenausschuß Maschinenbau (NAM), Bürowesen (NBue) und Informationsverarbeitung (NI): DIN 2148. Büro- und Datentechnik: Tastaturen: Begriffe und Einteilung. (Keyboards and data technology. Concepts and divisions) Orig. de. Berlin, DE: Beuth Verlag 1982. 3 p., 1 tab.

8755 03-843  
DIN, Normenausschuß Maschinenbau (NAM), Bürowesen (NBue) und Informationsverarbeitung (NI): DIN 32743 Teil 1. Büro- und Datentechnik. Endgeräte für die Textkommunikation. Begriffe und Einteilung, Entwurf. (Office and data technology. Terminals for text communication. Concepts and divisions. Draft) Orig. de. Berlin, DE: Beuth Verlag 1982. 6 p., 1 tab.

8756 03-874  
DIN, Normenausschuß Maschinenbau (NAM), Bürowesen (NBue) und Informationsverarbeitung (NI): DIN 32742 Teil 1. Büro- und Datentechnik. Fernkopierer. Begriffe und Einteilung. (Office and data technology. Telecopier. Concepts and divisions) Orig. de. Berlin, DE: Beuth Verlag 1982. 4 p., 9 tabl.

## 04 Classification Systems & Thesauri

### 041 LIBRARY CLASSIFICATION SYSTEMS

8757 041.8  
Westby, B.M.: Sears list of subject headings. New York, NY, US: H.W.Wilson Comp. 1982. 624 p., ISBN 0-8242-0676-2

8758 041.8  
Senatsbibliothek Berlin, DE: Systematischer Katalog mit (vorangestelltem) Schlagwortregister (SWR). Stand: Ende 1981. (Systematic catalog and subject headings list as of end of 1981) Orig. de. Berlin: Library of the Senat 1982. (Microfiche)

042 The UDC

8759 042.1-en-13; 615  
UDC 31. Statistics, Demography, Population studies. Orig.en. London, GB: BSI 1982. 18 p., FID 483; BS 1000(31):1982

8760 042.1-en-33; 36  
UDC 55. Earth sciences, Geology, Geophysics. Orig.en. London, GB: British Standards Inst. 1982. 78 p., ISBN 0-580-12638-2, F10 483; BS 1000(55):1982

8761 042.1-en-527  
UDC 628. Public health engineering, Water, Illumination engineering. Orig. en. London, GB: British Standards Inst. 1982. 33 p., ISBN 0-580-12723-0, F10 483; BS 1000(628):1982

8762 042.1-en-78  
UDC 656. Transport and postal services, Traffic organization and control. Orig. en. London, GB: British Standards Inst. 1982. 31 p., ISBN 0-580-12924-1, F10 483; BS 1000(656):1982

8763 042.2-sb  
Tables of the Slovak Medium UDC edition. Orig. sb+sk. Martin, CS: Matica Slovenska, Hostihora 1981. 525 p., F10 590

### 048.7 THE INTERNATIONAL PATENT CLASSIFICATION

8764 048.7  
International Patent Classification, 1979 (3rd) edition: Class and Subclass Titles - Synopsis of Classes and Subclasses with Information on the Number of Subdivisions. Orig. en. Geneva, CH: World Intellectual Property Org. 1982. 128 p., ISBN 92-805-0079-1, WIPO Publ.463(E)  
Intended to give a general view of the IPC this publication contains the titles of the sections, subsections, classes and subclasses of the 3rd ed of the IPC with information on the number of the main groups and subgroups therein as well as information on the subclasses deleted from previous editions.

### 048 SPECIAL CLASSIFICATION SYSTEMS AND THESAURI

8765 048-193  
Thesaurus zerstörungsfreie Prüfung. (Thesaurus for the field of non-destructive testing) Orig. de. Berlin, DE: Bundesanstalt für Materialprüfung (BAM) und Ot.Ges.f.Zerstörungsfreie Prüfung e.V. 1983. 200 p.

8766 048-28  
Dept.of Energy, Technical Inform.Center, Oak Ridge, TN: Subject thesaurus permuted listing. Orig. en. Springfield, VA: NTIS 1981. 240 p., OOE-TIC-7000-R5-APP

8767 048-284  
Commissariat à l'Energie Atomique, Centre d'Etudes Nucleaires de Saclay, Serv.de Doc., Gif-sur-Yvette, FR: Thesaurus du système international de documentation nucléaire. Orig. fr. Wien, AT: Int.Atomenergie Org. 1979. 837 p., 14 refs., ISBN 92-0-278079-X, IAEA-INIS-13(Rev.15)(F);

8768 048-284  
Zentralst.f.Atomkernenergie-Dokum.(ZAEO, Egenstein-Leopoldshafen, DE: Thesaurus des internationalen nuklearen Informationssysteme INIS Rev.10, dt.Ausg. (Thesaurus of the interna-

tional nuclear information system INIS. German ed. 10th rev.) wien, A1: Int.Atomenergie-Org. 1976. 657 p., 4 refs., ISBN 92-0-778076-3, IAEA-INIS-13(Rev.10)

8769 048-383  
Fachinformationszentrum Hüttenkunde, Werkstoffe, Metallbearbeitung und Metallverarbeitung: Metallurgie-Thesaurus. Bd.1: alphabetische Wortliste mit Permutationen; Bd.2: Dreisprachige Wortliste, deutsch alphabetisch; Bd.3: Dreisprachige Wortliste, englisch alphabetisch. Stand Januar 1982. (Metallurgy Thesaurus. 3 vols.) Orig. de. Berlin, DE 1982. 321 p. Contains an alphabetical list with permutations and 2 multi-lingual indexes with German and English as entry language.

8770 048-397  
Deutscher Bundestag. Bibliothek: Thesaurus der Hauptregionen. Stand: 1.4.1982. (Thesaurus of the main regions. As of April 1, 1982) Orig. de. Bonn, DE 1982. 43 p., WD2-520-4277  
As a part of the thesaurus of the Library of the German Parliament this thesaurus lists alphabetically the geographic names of the main regions determined and also regional references.

8771 048-46  
Agricultural Res.Council: Agricultural research current information system (ARCIS): volume 1: concepts and facilities; volume 2: draft thesaurus. Orig. en. London, GB: The Council 1981. 13+54 p., ISBN 0-7084-0189-9

8772 048-48  
Inkson, (Ed.); Mann, E.J. (Comp.); International Food Information Service (IFIS): IFIS thesaurus. Orig. en. Shinfield, GB 1981. 130 p.  
Alphabetical arrangement of descriptors and non-descriptors with relationship indications.

8773 084-48  
Komp,J.T.: Thesaurus of food terms: complete with definitions and search strategies for the database Food Adlibra. Orig.en. Louisville, US: Komp Inform.Serv. 1981. 275 p.

8774 048-48  
Internat.Coffee Organiz.(Ed.): COFFEE LINE: search guide and thesaurus. Orig. en. London, GB 1982. 68 p.

8775 048-48  
Thesaurus of preferred subject terms. Orig. en. Hereford, GB: Hereford Cider Museum Trust 1980. 15 p.

8776 048-516  
Trott, N.J.: Thesaurus of birth control terms. Orig. en. Feinberg, H. (Ed.); Mini-thesauri. Brooklyn, NY, US: Pratt Inst., Grad.School of Libr.and Inform.Sci. 1980. p.135-142

8777 048-52  
Health care microthesaurus: a hierarchical list of indexing terms used by NTIS. Orig. en. Springfield, VA, US: NTIS 1982. 64 p., PB82-131 715  
More than 1400 main terms and their hierarchies are listed, expressing health care concepts including those for health care costs, education, delivery, and occupations. Also included are terms covering resources, manpower, technology, services, use, and legislation. In some instances a short definition has been provided to clarify a special use of a term by NTIS. (Orig.abstr.,abbr.)

8778 048-566  
Epstein, R. (Comp.); Nelson, H. (Comp.): Special education: a guide to subject headings and shelf locations. Orig. en. Arlington, VA, US: ERIC 1981. 18 p., ED-184 556

8779 048-56  
Dokumentationsring Pädagogik. Berlin; Pädagog.Zentrum, Abt. Dokum. München: Thesaurus Pädagogik. (Education Thesaurus) Orig. de. München, DE: Saur 1982. 385 p., 30 refs., ISBN 3-598-10380-8  
The main parts give an overview of the faceted structure and the facet terms of the systematic part, the alphabetic part as well as a systematic part in form of facets. In the alphabetic part relationships of equivalence, hierarchy and association are indicated.

8780 048-66  
Burton, W.C.: Legal thesaurus. Orig. en. New York, NY, US: Macmillan Publ. 1981. 1058 p., ISBN 0-02-691010-1  
A dictionary of synonyms of legal terminology.

8781 048-6; 72  
Social science and business microthesaurus. A hierarchical list of indexing terms used by NTIS. Orig. en. Springfield, VA, US: NTIS 1982. 96 p., PB82-100066; NTIS/SR-82/011  
Contains more than 2400 terms arranged in a hierarchical relationship that express concepts relating to economics, administration and management, government human services, political sciences and urban and rural development.

8782 048-661  
Ciampi, C.; Fameli, E.; Trivisonno, G.: THDS/BID: a computer-based thesaurus of terminology on computers and the law. Orig.en. Inf.e Diritto Vol.8, No.1, 1982. 588 p.

The thesaurus is contains a structured alphabetic list, the hierarchic index and the hierarchic list, the classification table and the class list. Several auxiliary indexes complete the work which is based on the lexical material of the 'International Bibliography of Computers and Law'.

8783 048-755  
Groupe de Travail Standardisation: Thesaurus: mots-clés pour souterrains. (Thesaurus for earthworks) Orig. fr. Tunn.Ouvrages Souterr., No 50 1982. p.88

8784 048-811  
Midgley, J.D.: Thesaurus of universe models. Orig. en. Feinberg, H. (Ed.); Mini-thesauri. Brooklyn, NY, US: Pratt Inst., Grad.School of Library & Inform.Sci. 1980. 96-104

8785 048-82  
Rozo Rios, D.S.; Garzon Herran, M.E.; FID/Comision Latinoamericana FID/CLA; Inst.Colombiano para el Fomento de la Educ. Superior (ICFES): Tesouro en documentacion e informacion. (Thesaurus in documentation and information). Orig.es. Bogota, CO 1980. 266 p., 50 refs., FID 587

8786 048-86  
The information bank thesaurus: 7th ed. Orig. en. Parsippany, NY, US: New York Times 1980. 604 p.  
This thesaurus is meant to search the contents of the Information Bank's computerized database of current affairs information. It can also be used to organize collections of information on current affairs. The computer stored thesaurus includes 700 000 terms, the terms printed in the hard copy are only those that have more than 16 citations. In a 'thesaurus guide' at the end, search terms from 70 major subject areas are classified under 10 broad categories.

8787 048-86  
SEARCH INFORM user guide: key to the ABI/INFORM file. Orig. en. Louisville, KY, US: Data Courier 1981. 312 p.

8788 048-872  
Stanich, F.S.: A thesaurus of terms used in photography. Orig. en. Feinberg, H. (Ed.); Mini-thesauri. Brooklyn, NY, US: Pratt Inst., Grad.School of Libr.and Inform.Sci. 1980. p.55-72

## 06 Conference Reports, Proceedings

See also 9033, 9036, g051

8789 06  
Union of Internat.Assoc. (Ed.): World Forum Mondial 1980. Proceedings. "From International to Transnational". Orig.en. Bruxelles, BE 1982. 501 p.

The conference took place at Brussels, June 23-27, 1980. The proceedings consist of a Pt.I, including the Forum with its 20 contributions; the 64 contributions of Commission I, devoted to the topics: Nature and characteristics of associations; The world wide dimension of associative networks; The manifold aspects of transnationality; the 64 contributions of Commission II on Participation of associations in world order and international action, Aim and conditions of participation; Ways of participation in regional organizations. The final session had 6 contributions - reports of the commissions. Pt.II lists the authors and the texts. The Annex contains the preliminary questionnaire, the general list of participants and the table of speakers contributions.

8790 06  
Riggs, F.W. (Ed.): The CONTA Conference. Proceedings of the Conference on Conceptual and Terminological Analysis of the Social Sciences. Orig. en. Frankfurt/M., DE: INDEKS Verlag 1982. 382 p., ISBN 3-88672-200-7

The CONTA Conference brought together social scientists from all over the world as well as information scientists, classificationists and terminologists to discuss the urgent problems of social science conceptology and terminology as recognized by the Unesco Program Interconcept and to look for solutions to overcome the present pitfalls and difficulties. The carefully edited 32 papers and 12 reports are arranged in 3 parts. I: Problems - difficulties and examples. II: Theories - modes of analysis. III: Solutions - approaches and a proposal. The Recommendations of the conference are given as well as in the Appendix a conference resumé, the participants list and the reports on the activities of various international and national organizations in this interdisciplinary endeavour.

8791 Leclercq, H.: Some pluriconceptual terms in everyday language. - 8792 Björkman, J.W.: The concept of 'equality': multiple meanings in ordinary language. - 8793 Flanz, G.H.: The concept of checks and balances and the so-called 'doc-

trine' of the separation of powers. - 8794 Marradi, A.: An overloaded term: 'measurement'. - 8795 Misra, K.P.: Nonalignment: an Indian perspective. - 8796 Boyd, J.E.: 'Global consciousness' - a systembuilding political concept?. - 8797 Janda, K.: What's in a name? Party labels around the world. 8798 Malicsi, J.: Some problems posed by the use of foreign terminologies. - 8799 Rusu, D.; Dragomirescu, I.: Terms and concepts in technology assessment studies. - 8800 Ayoade, J.A.A.: Criteria and constraints of conceptual and terminological analysis: an African perspective. - 8801 Pool, J.: Applying conceptual analysis in the 21st century: design of a computerized system for global translanguing communication. 8802 Petöfi, J.S.: Exploration in semantics: analysis and representation of concept systems. - 8803 Ohly, H.P.: Concepts: of what? for whom? - 8804 Artus, H.M.: On the problems of defining sociological concepts. - 8805 Teune, H.: Concept development in the social sciences: the logic and strategy of the Committee on Conceptual and Terminological Analysis. 8806 Földi, T.: A multilingual dictionary of economics. 8807 Meynen, E.: Two international glossaries: the ICA (multilingual dictionary of technical terms in cartography) and the IGU (international geographical glossary). - 8808 Neuman, E.: Glossary of Administration (Kamus Administrasi). 8809 Burger, H.G.: The transitive taxonomy: classification by the grading of processes. - 8810 Meyriat, J.: Evaluation of information languages in the social sciences. 8811 Judge, A.J.N.: Anti-developmental biases in thesaurus design. 8812 Litoukhin, J.I.: UNESCO's project for the establishment of an integrated thesaurus of the social sciences. - 8813 Dahlberg, I.: Guidelines for the establishment of compatibility between information languages (abstract). - 8814 Aitchison, J.: Construction of an integrated thesaurus (abstract). - 8815 Soergel, D.: Compatibility of vocabularies. - 8816 Dienes, M.: Testing the compatibility matrix in the field of 'culture'. 8817 Riggs, F.W.: COCTA-glossaries: the \*ana-semantic\* perspective. - 8818 Molnar, I.; Rozsa, G.: Establishing the INTERMIN system model within the UNESCO-INTERCONCEPT framework. - 8819 Chan, N.: A thesaurus for terminology as opposed to one for documentation. - 8820 Nedobity, W.: Vocabulary of terminology. - 8821 Mogeey, J.M.: Preparing a concept dictionary for family studies. - 8822 Wolfson, R.J.: A formal lexicon for the social sciences. - 8823 Grollier, E.de: A conference resumé. - 8824 Meyriat, J.: International Commission for Social Science Information. - 8825 Krumholz, W.: Komitee Politik, Recht, Wirtschaft, Verwaltung - DGD-PRWV. - 8826 Földi, T.: Social Science Committee - FID/SD. - 8827 Arntz, H.: UDC-Revision Committee Social Sciences - FID/C3+92/99. - 8828 Dahlberg, I.: Classification Research Committee - FID/CR. 8829 Dahlberg, I.: Gesellschaft für Klassifikation e.V. 8830 Krumholz, W.: Monolingual and Multilingual Thesauri - ISO/TC 46/SC5. - 8831 Palnicov, M.: European Coordination Centre for Social Science Information ECSSID WG3. - 8832 Nedobity, W.: Committee on Terminology - ISO/TC 37. - 8833 Nedobity, W.: Infoterm, Wien. - 8834 Riggs, F.W.: INTERCONCEPT. 8835 Riggs, F.W.: Committee on Conceptual and Terminological Analysis (COCTA).

8836 06  
Das 6. NATO-Symposium über Materialkodifizierung. (The 6th NATO Symposium on Article Coding) Orig. de. In: Inf.Materialamt d. Bundeswehr, No 9, 1982. p.2  
Report on this Symposium which took place at Lissabon from May 4-6, 1982, with some 200 delegates from 12 countries.

8837 06  
FID/CR Sekretariat: FID/CR Conference. Report on the 4th FID/CR Conference, Augsburg, DE. Orig. en. In: FID News Bull. Vol 32, No 9, 1982. p.43-45  
The report is a slightly different version of the one by I. Dahlberg in Int.Classif.82-2 and contains the recommendations published in Int.Classif. 82-3 and is followed by the account given of the Ranganathan Award in Int.Classif.82-2.

8838 06  
Gödert, W.: 4th International Study Conference on Classification Research. 6. Jahrestagung der Gesellschaft für Klassifikation, Augsburg, 28. Juni bis 2. Juli 1982. Orig. de. Z.f.Bibl.wes.u.Bibliogr. Vol 30, No 1, 1983. p.55-61  
Short report in German and the Recommendations of this conference in German translation.

8839 06  
Arntz, H.: Tagung des FID-Komitees C 3+92/99 (Sozialwissenschaften und Geschichte). (Meeting of the FID-Committee on Social sciences and History) Orig. de. In: Int.Aufg.DGD Vol 4, No. 9/10, 1982. p.165-166

## 07 Textbooks (whole field)

8840 07.21  
Aitchison, J.: Indexing languages: classification schemes and thesauri. Orig. en. In: Anthony, L.J. (Ed.); Handbook of special librarianship and information work. London, G8: Aslib 1982. p.207-261

8841 07.331  
Rajan, T.N.: Indexing systems: concepts, models and techniques. Includes co-ordinate indexing, automatic indexing and indexing and abstracting services. Orig. en. Calcutta, IN: IASLIC 1981. 270 p.

## 08 Other Monographs (whole field)

8842 08  
Stibic, V.: Tools of the mind: techniques and methods for intellectual work. Orig. en. Amsterdam, NL: North-Holland Publ. Comp. (Elsevier Science Publishers, P.O.Box 211, NL-1000 AE Amsterdam) 1982. 310 p., ISBN 0-444-86444-X  
Description of the basic techniques and methods of intellectual work: the organization of one's work place; the gathering, storage, management and retrieval of information for personal use; the traditional and modern methods of text processing, in particular the practical use of a word processor by a professional for more challenging tasks than simple typing of business correspondence; personal computing by means of pocket calculators, personal computers and terminals; some basic techniques and methods of graphical presentation; and techniques of communication by traditional and new means, including electronic mail and computer-conferencing. Examples. Index.

## 09 Standards, Guidelines

8843 09.77  
DIN, Normenausschuß Terminologie (NAT): DIN 2339 Teil 1. Ausarbeitung und Gestaltung von Veröffentlichungen mit terminologischen Festlegungen. Stufen der Terminologearbeit. Vornorm. (Elaboration and form of publications with terminological determinations. Steps in terminology work. Prel.standard) Orig. de. Berlin, DE: Beuth Verlag 1982. 16 p., 8 figs.

# 1 THEORETICAL FOUNDATIONS

## 11 Order and Classification

See also 8809

8844 11  
Barth, E.M.; Krabbe, E.C.W.: From axiom to dialogue. A philosophical study of logics and argumentation. Orig. en. Berlin-New York, NY, US: W.de Gruyter 1982. 337 p., 135 refs.  
The book has the following 12 chapters: The philosophical situation. Declarative languages, dialectical languages and speech acts. Conflicts of opinion and methods for their resolution. Variants of formal dialectics. Winning strategies and dialogical strategy tableaux. Natural deduction. Deductive tableaux. Axiomatics. Model-theoretic semantics. Semantic tableaux. The unity of the garbs - and what next. From ontology to flux of opinions.

8845 11  
Ortner, E.: Durch Prädikation zu Objekttypen. (From predications to types of objects) Orig. de. Brauer, W. (Ed.) et al; GI - 11. Jahrestagung in Verbindung mit '3rd conference of the European Co-operation in Informatics (EDI)', München, DE, 20.10.-23.10.1981. Berlin, DE: Springer 1981. p.270-284, 3 figs., 12 refs.  
Proposal for the construction of database applications. Concepts are construed which lead to types of objects. These are introduced in a controlled and step-wise manner, that is by exemplifying predication and establishment of predictor-rules, by reflection and critical examination of the ruling system concerning consistency and derivability; by construction of the types of objects indicating the conditions of integrity. Finally, on a logical level, the representation of the (re-)constructed types of objects is accomplished, either in a relational or a hierarchical manner. (Author, transl.)

8846 11  
Rigg, J.C.: Presentation of numeric data in publications. Orig. en. In: J.of Res.Communs.Stud. 3(1982)No 4, p.367-376, 3 figs.; 1 tab., 22 refs.  
An item of numeric data can be divided into four main elements or facets: system; component; kind of quantity; and number and unit. In a collection of data the elements do not need to be repeated for each item of data but may be linked into a logical structure. In the primary literature, such a structure is woven into the text; in tables and graphs, the facets can be used as a check-list on completeness. In data banks, the logical relationships of the elements can be represented by arrow logic, which requires a less formal structure than that used in many existing banks of quantitative data. For comparability and interchangeability of data, the International System of Units needs to be introduced more consistently. (Author, abbr.)

## 12 Conceptology in Classification

See also 8802-5

- 8847 12  
Frey, G.: Ein Zugang zum Kategorienproblem. (An approach toward the problem of categories) Orig. de. Allg.Z.Philos. Vol 7, No 3, 1982. p.1-12  
Discussion of those elements of language and thought, which must be presupposed, that is, which cannot be defined. It is doubted that a list of such elements could be established. They form, however, the possibility to think and to speak.
- 8848 12  
Lawrence, R.J.: How many categories for respondent classification? Orig. en. J.Market Res.Soc. 23(1981)No 4, p.220-237
- 8849 12  
Alekseev, B.T.: Philosophical problems of the formalisation of knowledge. Orig. ru. Leningrad, SU: LGU 1981. 168 p.  
Deals with the sources, objectives and perspectives of a general-scientific cognition method with its application possibilities in the use of computers.
- 8850 128  
Niven, B.S.: Formalization of the basic concepts of animal ecology. Orig. en. Erkenntnis 17(1981)No 3.

## 13 Mathematics in Classification

- 8851 13  
Shingareva, E.A.: Formal mathematical theory of artificial language. Orig. ru. Inzh.ling.vi prepodavanie in.jaz. Leningrad, SU 1981. p.47-65  
The object-attribute language used in the "Response" information retrieval system is modelled using the concepts of formal logical theory and the mathematical language model in the sense of Yu.A.Shrejder.
- 8852 13  
Yager, R.R.: Approximate reasoning and possibilistic models in classification. Orig. en. Int.J.Comput.Inform.Sci. 10(1981)No 2, p.141-175, 22 refs.  
Discussion of the possibility to apply the principles of fuzzy set theory and approximate solutions theory to the construction of classification patterns. Alternative approaches to the classification problem are also discussed.
- 8853 13  
Arapov, M.V.: Mathematical models of classification in application to some problems of statistical linguistics. Orig. en. Viks, Ue. (Ed.); Computational linguistics and related topics. Summaries of a symposium, Reval, SU, Nov.24-26, 1980 Reval, SU 1980. p.14-16  
Application of a theoretical approach to explain a number of frequency-rank distributions and proposal of a way towards formalizing the concept 'classification', of a number of methods to enumerate all admissible classifications of a given set of elements (i.e. a number of 'statistics') as well as introduction of a concept of the probability of a given classification.

## 14 Systems Theory in Classification

- 8854 14  
Blauberg, I.V.; Sadovsky, V.N.; Yudin, E.G.: The systemic approach: prerequisites, problems, and difficulties. Orig.en. Gen.Syst.Yearb.Soc.Gen.Syst.Res. Vol 25 1980. p.1-31  
Treats the features of the so-called systemic approach and includes also its relationship to classification in discussing the classification of systemic objects as well as content-oriented and formal methods of systems analysis. Difficulties are at present seen in the absence of an inventory of the tools of the systems analysis and an adequate system of logical concepts.
- 8855 14  
Brjanik, N.V.: The language of science as a system. Orig. ru. Semiotich.aspekty nauch.poznanija. Swerdlovsk, SU 1981. p.31-37, 7 refs.  
The language of science cannot be reduced to terminology alone just as a system cannot be reduced to elements. It is envisaged as a systems entity, since it exhibits integrity and is characterised by a mutual interconnection and the dependence existing between separate sciences.
- 8856 14  
Wood-Harper, A.T.; Fitzgerald, G.: A taxonomy of current approaches to systems analysis. Orig. en. Comput.J. 25(1982)No 1, p.12-16, 20 refs.  
Six major approaches to systems analysis are identified: (1) General systems theory, (2) Human activity systems approach, (3) Participative (socio-technical approach), (4) Traditional

(NCC, etc) approach, (5) Data analysis approach and (6) Structured systems (functional) approach.

## 16 Development of Science and Classification

See also 9021, 9025, 9026

- 8857 16.06  
Celishchev, V.V. (Ed.): The problems of logic and methodology in science. Orig. ru. Novosibirsk, SU: Nauka 1982. 335 p.  
Proceedings of seminars held by the Logic and Epistemology Sections of the Institute for History, Philology and Philosophy of the Siberian Division, USSR Academy of Sciences in 1977-1979.
- 8858 16  
Fedoseev, G.N.: Philosophy and the integration of sciences. Orig. ru. Metodol.probl.vzaimodejstvija obshchestv., estestv. i techn.n.. Moskva, SU 1981. p.13-15, 5 refs.
- 8859 16  
Kedrov, B.M.: Interaction of sciences as a general-scientific problem. Orig.ru. Metodol.probl.vzaimodejstvija obshchestv., estestv.i techn.n.. Moskva, SU 1981. p.35-50, 3 refs.  
Analysis of the problem of sciences interaction from the viewpoint of material dialectics.
- 8860 16  
Ursul, A.D.: Theoretical-methodological problems of the substantiation of the general-scientific level of knowledge. Orig. ru. Metodol.probl.vzaimodejstvija obshchestv., estestv. i techn.n.. Moskva, SU 1981. p.50-69, 12 refs.
- 8861 16  
Markarjan, E.S.: Self-organisation principles and the integrative interaction of the social, natural and technological sciences. Orig. ru. Metodol.probl.vzaimodejstvija obshchestv., estestv.i techn.n.. Moskva, SU 1981. p.225-239, 9 refs.  
Demonstration that the self-organisation principles are now the theoretical base for the integrative interaction between the various groups of sciences and favour the creation of a single complex comprising the whole of scientific knowledge.
- 8862 16  
Finkenshtejn, A.M.; Krejnovich, V.Ja.: Are scientific revolutions inevitable? (Pro and contra). Orig. ru. Metodol.probl.vzaimodejstvija obshchestv., estestv.i techn.n.. Moskva, SU 1981. p.240-254, 20 refs.  
Demonstration that at present the nature of the science development process changes: it ceases to be equivalent to filling cognition gaps but becomes an incessant replacement of some sufficiently developed theoretical concepts by other ones, not less developed. The expanding role of mathematics as a unified language of the scientific communities is considered.
- 8863 16  
Sidorov, V.I.: The interconnection of sciences in the process of new technology creation. Orig. ru. Metodol.probl.vzaimodejstvija obshchestv., estestv. i techn.n. Moskva, SU 1981. p.250-269, 20 refs.
- 8864 16  
Cheshev, V.V.: Technological knowledge and the interconnection of the natural, social and technical sciences. Orig. ru. Metodol.probl.vzaimodejstvija obshchestv., estestv.i techn.n. Moskva, SU 1981. p.269-287, 21 refs.  
The study of the objective structures of activity provides an immediate ground for the interaction between the natural and technical sciences as well as for transforming technical knowledge into scientific knowledge.
- 8865 16  
Gorohov, V.G.: The problem of theory development in the technological sciences. Orig.ru. Metod.probl.vzaimodejstv.obshchestv., estestv.i techn.n. Moskva, SU 1981. p.288-305, 27 refs.  
The development of a technological theory follows the same pattern as the development of a scientific one. The traditional idea of a technological science as a purely empiric, applied research is evidently false.
- 8866 16  
Rozin, V.M.: Logico-methodological analysis of the evolutionary stages of the engineering sciences. Orig. ru. Metodol.probl.vzaimodejstvija obshchestv., estestv.i techn.n. Moskva, SU 1981. p.305-321, 19 refs.
- 8867 16  
Savenko, A.G.: Science as a form of social production. Orig.ru. Nauka. Zakonomernosti ee razvitija. Tomsk, SU 1980. p.21-26  
The 'production' concept more exactly than the 'activity' concept expresses the essence of science as a form of spiritual production oriented to obtain such products as the new scientific knowledge.

8868 16  
Knigin, A.N.: Some problems of science as an information system. Orig. ru. Nauka. Zakonomernosti ee razvitija. Tomsk, SU 1980. p.34-47, 23 refs.

8869 16  
Danilina, N.D.: Systems, information and science progress. Orig. ru. Nauka. Zakonomernosti ee razvitija. Tomsk, SU 1980. p.48-55, 19 refs.

The progress of science as knowledge is a process of semiosis. Science progress can be described as the progress of language with the one of the structure inherent in the neuronal states of the brain. Scientific sign systems can develop in two ways, by the appearance of new terms or new connotations and by the sign involution or renotation. As a result the internal informativity of a scientific language fragment becomes enriched to an appropriate degree while the informativity of the fragment of a sign system remains unchanged because of the limited number of signs. The processes lead to an information-bound charge of the neuronal structures conditioning the specialisation of scientific disciplines.

8870 16  
Lukina, N.P.: Gnosiological factors of the emergence of scientific schools. Orig.ru. Nauka. Zakonomernosti ee razvitija. Tomsk, SU 1980. p.104-113

8871 16  
Markov, Ju.G.: The functional approach in modern knowledge. Orig. ru. Novosibirsk, SU: Nauka 1982. 255 p.

A functional treatment of the concepts of space and time is attempted. The significance of the functional approach for resolving various topical problems of today (e.g. environment protection) as well as for developing interdisciplinary research and enhancing the integrity factor in the scientific knowledge system is demonstrated. (Author, abbr.)

8872 16  
Nye, M.J.: Workshop on the demarcation between science and pseudoscience. Orig. en. ISIS Vol 73, No 268, 1982. p.557-558  
The workshop was held 30 April - 2 May at the Center for the Study of Science in Society, Virginia Polytechnic Institute and State University. 10 papers were presented and discussed. Non consenses reached. The papers are listed.

## 17 Problems in Classification

8873 17  
Karlsson, W.: What kind of library system should I choose?. Orig. en. LIBRADO and Internat.Archive News Vol 6, No 2-3, 1981. p.16-18

Discussion of the choice of classification systems for general book collections with particular reference to the demands of the Folksam Library, Sweden (insurance).

8874 17  
Simeonova, K.: Unification - an internal factor in the intensification of research activities. Orig. en. Science of Science Vol 2, No 2, 1981. p.181-193, 14 refs.

Examination of the process of unification as a normal result of the integration process in science. Taking into account concrete experiments in the science of science some of the indicators of the tendencies mentioned become strongly pronounced in scientific disciplines. These are: changes in the plasticity of problems, changes in language, and a rise in the interest in methodological problems. (Author, abbr.)

8875 17  
Lancaster, F.W.; Neway, J.M.: The future of indexing and abstracting services. Orig. en. J.ASIS Vol 33, No 3, 1982. p. 139-141, 8 refs.

The increased costs of traditional print-on-paper secondary services have resulted in a decline in subscriptions for many titles. Concomitantly, the cost effectiveness and efficiency of computer processing has led to a proliferation of online databases. The future lies in an integration of primary and secondary services and the latter become "filters" to guide the user from the initial databases of primary text to databases of abstracts and finally to more specialized, subject-profile-oriented databases of abstracts. (Authors, abbr.)

## 2 STRUCTURE AND CONSTRUCTION OF CS & T

### 21 General questions of CS & T

See also 8811, 8840, 8927, 9047

8876 21  
Bielicka, L.A.; Scibor, E.: Introduction to the theory of indexing languages. Orig. pl. Warszawa: CINTe 1981. 84 p., Mater.szkoleniowe No.21

Monograph comprising all aspects and functions of an indexing language in information retrieval systems including also its computer-aided development and the major experimental studies into indexing language effectiveness.

8877 21  
Fugmann, R.: The comolementarity of natural and indexing languages. Orig.en. Int.Classif. 9(1982)No 3, p.140-44, 33 refs.

As one must be able to reconstruct or predict which modes of expression have been used in the search file it is necessary to distinguish between general concepts which lack predictability and therefore require control-instruments concerning their vocabulary and grammar on the one hand and individual concepts on the other hand which are represented with good predictability and perfect fidelity. Their translation into an indexing language is often superfluous.

8878 21  
Ivanov, A.V.: Using an indexing language to implement formalised procedures in branch-oriented problems. Orig. ru. Baz. kompleks zadach 2 ocheredi otrasl.podsystem ASPR. Moskva, SU 1982. p.125-134, 8 refs., 1982  
Formal grammatical rules are employed to basic complex tasks.

8879 21  
Matveenko, V.A.: Linguistic software of a data retrieval system. Orig. ru. Nauch.-Tehn.Inform.Ser.2, No 3, 1982. p.9-16, 12 refs.

The linguistic software of the mechanical engineering sectoral MIS is subordinated to the tasks of handling techno-economic information and aims at the recognition and identification of information objects, in particular manufactured articles. Names of articles in planning, regulatory and accounting documents are translated manually into an unsophisticated object-attribute information language. IR uses the information language syntactic rules, the external similarity rules, and an ir thesaurus. The search algorithm identifies and orders mismatches in the names of identical objects and identifies symbol-by-symbol nonmatching items. (Author)

### 22 Elements of CS & T

8880 22  
Dietze, J.: Die optimale Struktur eines Informationsrecherche-thesaurus. (Optimal structure for an IR thesaurus). Orig. de. Wiss.Z.M.-Luther-Univ.Halle-Wittenberg, DD: Ges.-u.spr.wiss.R. Vol 30, No 5, 1981. p.85-102, 79 refs.  
Discussion of the kinds of structure a thesaurus may have, their problems and their adequacy for particular application cases.

8881 22  
Sosinska, B.: Structure of expressions in information languages versus the connotational and denotational interpretation of their meanings. Orig. pl. Zag.Inform.Nauk, No 2, 1981. p.41-60, 17 refs.

8882 22  
Rigg, J.C.: Compound words and compound terms. Orig. en. J.Doc. Vol 38, No 2, 1982. p.125-126, 4 refs.  
A letter to the Editor with reference to an article by K.P. Jones on "Problems associated with the use of compound words in thesauri". J.Doc.37(1981)No.2, p.53-68. - He distinguishes the levels 'complex concept', 'compound term', 'compound word' and 'compound symbol'.

### 23 Construction of CS & T

See also 8468, 8486

8883 23  
Beljanina, M.V.; Buhaleva, E.I.; Zajdenman, I.A.: Devising a theme description on a document collection. Orig. ru. Nauch.-Tehn.Inform.Ser.2, No 2 1982. p.21-23, 4 refs.  
Discusses an algorithm for constructing a document classification on an information file which takes the form of operators: a classification operator, a nominalisation operator, a novelty analysis operator, and a terminal operator. Illustrates the work of the terminal operator by which the computer prints out a connected text including the name of the class and inessential characteristics. (Author)

8884 23  
Brodda, K.; Hess, C.F.: Kriterien zur optimalen Klassenwahl bei computergestützten Mustererkennungsverfahren. (Criteria for optimal class selection in computerized pattern recognition procedures) Orig. de. EDV in Med.u.Biol. Vol 12, No 4, 1981. p.106-111

8885 23  
Frumkina, R.M.; Micheev, A.V.: Behavioural models in free classification of words (on a sample of words for colour denomination). Orig.ru. Nauch.-Tehn.Inform.Ser.2 (1982)No 2, p.6-11

It was found that in experiments with free classification of objects the results depend also on the behaviour of the persons involved. This phenomenon was called "classificational behaviour". Its aspects are outlined and the resulting classifications are discussed. Cluster analysis methods have been applied.

## 24 Relationships

- 8886 24  
Narskij, I.S.: On the reflection of logical connections in the natural and formalised languages. Orig.ru. Semiotich. aspekty nauch.poznaniya. Swerdl'ovsk, SU 1981. p.121-30, 22refs.
- 8887 24  
Seroka, W.: Some problems of weighted descriptors. Orig. pl. Zag.Inform.Nauk, No 2 1981. p.61-81, 13 refs.  
Presentation of a mathematical method of constructing functions in the IR process and practical effects of applying these functions in the IR process. Description of the problem of descriptor weighting in fuzzy set categories and interpretation of the IR process on the basis of the properties of fuzzy set algebra. (Orig.abstr.,modif.)

## 25 Numerical Taxonomy

See also 8745 and 8993-8999 for the application fields

- 8888 25  
Aunon, J.I.; McGillem, C.D.: On the classification of single evoked potentials using a quadratic classifier. Orig. en. Comput.Programs Biomed. Vol 14, No 1 1982. p.29-40
- 8889 25  
Colonius, H.; Schulze, H.H.: Tree structures for Proximity data. Orig. en. Brit.J.Math.Statist.Psychol. 34(1981)No 2, p.167-180
- 8890 25  
Diday, E.; Lemaire, J.; Pouget, J.; Testu, E.: Elements d'analyse de données. (Elements of data analysis) Orig. fr. Paris, FR: Dunod 1982. 462 p., ISBN 2-04-015430-2  
Consists of 6 main chapters: 1) The preliminary stages of data analysis; 2) Automatic classification; 3) Linear methods, 4) Discriminant analysis, 5) Ordinal methods, 6) Aggregation of preference data. Exercises follow and an annex with "La programmation structurée" and a general bibliography of 110 references.
- 8891 25  
Farewell, V.T.: A note on regression analysis of ordinal data with variability of classification. Orig. en. Biometrika Vol 69, No 2, 1982. p.533-538
- 8892 25  
Formann, A.K.: Linear logistic latent class analysis. Orig.en. Biometrical J. Vol 24, No 2, 1982. p.171-190
- 8893 25  
Godolphin, E.J.; DeGooijer, J.G.: On the Maximum Likelihood Estimation of the Parameters of a Gaussian moving average process. Orig. en. Biometrika Vol 69, No 2, 1982. p.443-451
- 8894 25  
Hartmann, W.: Modelle und Verfahren der Clusteranalyse auf der Basis von Skalarprodukt-Relationen. (Models and techniques of cluster analysis based on scalar product relations) Orig. de. Int.Classif. Vol 9, No 3, 1982. p.129-139, 11 refs.  
In the first part three different models of cluster analysis are presented based on scalar product relations. In the second part different methods and algorithms are presented for the numerical treatment of these three scalar product models.
- 8895 25  
Henry, F.: Multivariate analysis and ordinal data. Orig. en. Amer.Sociol.Rev. Vol 47, No 2 1982. p.299-307
- 8896 25  
Jeansoulin, R.; Fontaine, Y.; Frei, W.: Multitemporal segmentation by means of fuzzy sets. Orig. en. In: Mach.Process.Remote Sensed Data. West Lafayette, Ind.1981. p.336-9, 7 refs.  
Proposal to automate the segmentation by the use of monospectral, multispectral and multitemporal properties, measured by several criteria. The combination of these criteria is performed by means of fuzzy set theory tools. (Authors, abbr.)
- 8897 25  
Kakusho, O.; Mizoguchi, R.: A new algorithm for non-linear mapping with applications to dimension and cluster analysis. Orig. en. Pattern Recogn. 16(1982)No 1, p.109-117, 10 refs.  
Proposal of a new non-linear mapping method suitable for dimension and cluster analysis. In order to obtain a flexible and powerful method, the non-metric, multidimensional scaling of Kruskal type is extended by introducing the concept of k-nearest neighbor. Some simulation results supporting the efficiency of the new method are given along with a detailed discussion. (Authors)
- 8898 25  
Kannemann, K.: The exact evaluation of 2-way cross-classifications. An algorithmic solution. Orig. en. Biometrical J. Vol 24, No 2 1982. p.157-169
- 8899 25  
Kirchgässner, G.: Einige neuere statistische Verfahren zur Erfassung kausaler Beziehungen zwischen Zeitreihen. Darstellung und Kritik. (Some recent statistical procedures for the recognition of causal relationships between time-series) Orig. de. Göttingen, DE: Vandenhoeck & Ruprecht 1981. 190 p.
- 8900 25  
Kozioł, J.A.: A class of invariant procedures for assessing multivariate normality. Orig.en. Biometrika 69(1982)2, p.423-7
- 8901 25  
Kurzynski, M.W.: The optimal strategy of a tree classifier. Orig. en. Pattern Recogn. Vol 16, No 1, 1983. p.81-87  
Paper deals with the decision rules of a tree classifier for performing the classification at each nonterminal node, under the assumption of complete probabilistic information. For given tree structure and feature subsets to be used, the optimal decision rules (strategy) are derived which minimize the overall probability of misclassification. The primary result is illustrated by an example. (Author)
- 8902 25  
Latty, R.S.; Hoffer, R.M.: Computer-based classification accuracy due to the spatial resolution using per-point versus per-field classification techniques. Orig.en. Mach.Process.Remote.Sensed Data. West Lafayette, IN, 1981. p.336-9, 7refs.  
This study determined the classification accuracies achieved with MSS data of four different spatial resolutions using two different types of classifiers. The data were obtained on May 2, 1979 with the NASA NS-001 Thematic Mapper Simulator (TMS) over an area in north-eastern South Carolina from a height above ground of 5046 meters. (Authors, abbr.)
- 8903 25  
Marriott, F.H.C.: Optimization methods of cluster analysis. Orig. en. Biometrika Vol 69, No 2, 1982. p.417-421
- 8904 25  
Möbus, C.: On the nontermination of the K-means clustering algorithm for certain data sets. Orig. en. EDV in Med.u.Biol. Vol 12, No 4, 1981. p.124-126
- 8905 25  
Moussa, M.A.A.: Classification into one of several populations with allowance to unequal covariances. Orig. en. Comput.Programs in Biomed. Vol 14, No 1, 1982. p.57-66
- 8906 25  
Parui, S.K.; Majumder, D.D.: Symmetry analysis by computer. Orig.en. Pattern Recogn. Vol 16, No 1, 1983. p.63-7, 9 refs.
- 8907 25  
Raghavan, V.V.: Approaches for measuring the stability of clustering methods. Orig. en. Sigir Forum Vol 17, No 1, 1982. p.6-20, 3 figs., 27 refs.  
'Stability of clustering methods' is understood to allow to measure of how sensitive an algorithm is to perturbations in the input data. A number of such measuring techniques have been published in the literature. This note reviews their approaches and provides a classification of the various techniques. (Author, abbr.)
- 8908 25  
Rubin, D.B.; Szatrowski, T.H.: Finding maximum likelihood estimates of patterned covariance matrices by the algorithm. Orig. en. Biometrika Vol 69, No 2, 1982. p.657-660
- 8909 25  
Shukla, G.K.: Testing the homogeneity of variances in a two-way classification. Orig.en. Biometrika 69(1982)No 2, p.411-6
- 8910 25  
Stanfel, L.E.: Applications of clustering to information system design. Orig. en. Inform.Process.Managem. Vol 19, No 1, 1983. p.37-50, 27 refs.
- 8911 25  
Siegel, A.F.; German, R.Z.: Rarefaction and taxonomic diversity. Orig. en. Biometrics Vol 38, No 1, 1982. p.235-241
- 8912 25  
Yu, T.-S.; Fu, K.-S.: Recursive contextual classification using a spatial stochastic model. Orig. en. Pattern Recogn. Vol 16, No 1 1983. p.89-108

## 26 Notation, Codes

8913 26  
Bond, V.B., Bowman, O.M., Davison, L.C., Roush, P.F., Young, L.F.: Applications of the Wiswesser line notation at the Dow Chemical Company. Orig. en. *J.Chem.Inform.Comput.Sci.* Vol 22, No 2, 1982. p.103-105, 15 refs.

The Wiswesser Line Notation has been used at the Dow Chemical Co. since the early 1960s to provide machine representation of the approx.180 000 defined structures in its compound data base. The article describes the kinds of applications and the problems faced. (Acc.to author)

8914 26  
Eakin, D.R.: Graphics challenge WLN. Can WLN hold fast?. Orig. en. *J.Chem.Inform.Comput.Sci.* Vol 22, No 2, 1982. p.101-103, 2 figs., 1 ref.

8915 26  
Fritts, L.E.; Schwind, M.M.: Using the Wiswesser line notation (WLN) for online, interactive searching of chemical structures. Orig. en. *J.Chem.Inform.Comput.Sci.* 22(1982)No 2, p.106-109, 7 figs., 9 refs.

8916 26  
Johns, T.M.: Wiswesser Line Notation as a structural summary medium. Orig. en. *J.Chem.Inform.Comput.Sci.* 22(1982)No 2, p.109-113, 11 figs., 2 refs.

WLN is well established as a technically unambiguous and efficient method of denoting chemical compounds. Its true appeal, however, lies in the fact that it is a linguistic rather than a merely symbolic notation. The syntactical WLN can be broken down into easily recognizable wordlike fragments retaining much of the original information content. The paper describes, ho G.D.Searle is using such WLN fragments as an integral part of a minocomputer-based, WLN-oriented data base system designed to handle its internal compounds. (Author, abbr.)

8917 26  
Mehman, D.W.: Substructure searching with SANSS. Orig. en. Williams, M.E. (Comp.); Proc.3rd 'Nat.Online Meeting', New York, NY, US, 30.3.-1.4.1982. Online Review, Medford, NJ, US: Learned Inform. 1982. p.349-363, 5 figs.

8918 26  
Wiswesser, W.J.: How the WLN began in 1949 and how it might be in 1999. Orig. en. *J.Chem.Inform.Comput.Sci.* Vol 22, No 2, 1982. p.88-93, 3 figs., 51 refs.

In December 1949 the first WLN (Wiswesser Line-Formula Notation) symbols were developed as a new "least effort" method for standardizing the old line-formula delineations that Loschmidt had introduced in 1861. The set of letter symbols was comprehensively simplified in June 1950, but these 30-year-old first WLN's employed the full symbol set of the standard typewriter keyboard; thus they probably will resemble structural delineations of the 21st century closer than the present WLN descriptions. Basic features of an advanced WLN (AWLN), with a greatly expanded character set, are summarized. (Author)

8919 26  
Wiswesser, W.J.: The A, B, C's of the AWLN (Advanced Wiswesser Line Notation). Orig. en. *J.Inform.Sci.* Vol 4, No 2/3, 1982. p.69-77, 3 figs.; 3 tabs., 18 refs.

Chemical structures of grown from some 1000 in 1781 to some 6 000 000 reported in 1981, with an estimated 200 000 additions per year. The AWLN is a proposed solution for chemists and computer: a unique and unambiguous standardization of the 'rational formula' delineations that Loschmidt introduced in 1861. The report introduces into the AWLN.

8920 26  
Warr, W.A.: Diverse use and future prospects for Wiswesser Line-Formula Notation. Orig. en. *J.Chem.Inform.Comput.Sci.* Vol 22, No 2, 1982. p.98-101, 1 fig., 48 refs.

## 28 Compatibility and Concordance between

### CS & T

See also 8812-8816, 8967

8921 28  
Negulyaev, G.A.; Tarasova, G.A.: The integrated use of information retrieval languages in patent search. Orig. en. *World Pat.Inform.* Vol 4, No 2, 1982. p.70-74

Report on the use made of the existing patent classification systems, such as the IPC, NPC and others in indexing patents in the USSR.

8922 28  
Rakitin, Ju.M.: Economic indicator table conversion language. Orig. ru. *Nauch.-Tehn.Inform.Ser.2*, No 4 1982. p.10-15  
Presents a method for compiling and converting economic indicator tables based on the representation of indicator attri-

butes as a composition of independent multitudes of basic trees. Describes the economic indicator table conversion and main implementation algorithms. (Author, abbr.)

## 29 Evaluation of CS & T

See also 8810, 9013

8923 29  
Ohly, H.P.: A procedure for comparing documentation language applications: the transformed Zipf curve. Orig. en. *Int.Classif.* Vol 9, No 3, 1982. p.125-128, 3 refs.

A common procedure for describing the word concentration of texts is presented by the ZIPF curve. Interpretation difficulties arise, however, at least where documentation language applications are compared. This paper presents a transformation consisting of a percentage-taking and a compression or stretching of the values of the ZIPF curve. Using three selected documentation languages as examples it is shown that the transformed ZIPF curve permits a differentiated comparison of concentrations. (Unfortunately the figures of this article were not printed in this issue but are added as a separate sheet in *Int.Classif.*83-1).

## 3 CLASSING AND INDEXING (METHODOLOGY)

### 31 Theory of Classing and Indexing

See also 8747, 8841, 9099

8924 31  
Brown, A.; Langridge, D.W.; Mills, C.: An introduction to subject indexing: a programmed text. Orig. en. London, GB: Library Assoc.Publ., Sales Dept. 1982, ISBN 0-85157-331-2

8925 31  
Knorz, G.: Indexieren als Erkennen von Dokument-Deskriptor-Beziehungen. Konzept und Ergebnisse. Orig. de. *Angew.Inf.* Vol 24, No 1 1982. p.1-10, 3 figs., 13 refs.

Presentation of the conception of a weighted automatic indexing method for information retrieval purposes which describes the assignment of descriptors as a recognition problem for document-descriptor-relationships. Based on vectorial descriptions of these relationships square-mean polynom classifiers were introduced to realize a decision theoretic approach. Indexing results, representing some 33 000 abstracts demonstrate the usefulness of this conception. (Author,transl.)

8926 31  
Ksenofontova, G.P.: On terminological support for the subject indexing of scientific and technical literature. Orig. ru. *Tr./GPNiB SSSR*, No 15 1981. p.171-177, 11 refs.

Cites data characterizing the progress made by state standardisation of terminology in different fields of science and technology.

8927 31  
Perez, E.: Text enhancement. Controlled vocabulary versus free text. Orig. en. *Spec.Lib.* Vol 73, No 3, 1982. p.183-192, 4 figs., 5 refs.

'Free text' retrieval from full-text databases is possible with many existing systems, but some information professionals are doubtful about the quality of the results. The 'augmentation' or 'enrichment' needed for practical operation of these systems is discussed. (Author, abbr.)

8928 31  
Perreault, J.M.: Authority control, old and new. Orig. en. *Libri* Vol 32, No 2, 1982. p.124-148

The focus is on the authority file in author/title work, and the starting point is the presentation by Ritvars Bregzis "The syndetic structure of the catalogue", Sept.1979. The creation of surrogates for documents consists of a minimum of Description, Choice of entry and Formation of Headings, and only at this third stage the authority file enters.

### 32 Subject Analysis

8929 32  
Fel'dbljum, I.S.: Information analysis as a means of obtaining new knowledge. Orig. ru. In: *Probl.inf.obespech.fundam.i prikl.nauch.issled.v svete reshenij* 26 s'ezda KPSS. Ch.1. Moskva, SU 1982. p.58-59

8930 32  
Gross, P.: Über eine graphentheoretische Methode zur Inhaltsanalyse automatisierter Dokumentennachweisfonds. Teil I. (On a method using the theory of graphs for the contents analysis of automated document reference stores. Part I) Orig. de. *Informatik* 28(1981)No 6, p.12-14, illus., 3 refs.

A method using the theory of graphs is presented as an efficient means of content analysis which is essential of coping effectively with stock increases (30 000 references are added each year) and to ensure good cooperation between central and branch stocks.

### 33 Classing and Indexing Techniques

8931 33  
Choros, K.: Document indexing with weighted descriptors. p1, p.22-26. Akt.Probl.Inform.Doc., No 5-6, 1981, 12 refs. Weights are assigned to descriptors by way of statistical and probability methods in order to determine the importance of a descriptor in the representation of the contents of a document.

8932 33  
Gershman, S.L.; Minaeva, M.I.; Suhii, E.S.: Some experience in the development and maintenance of the word-stock and using the indexing language of the data retrieval system Neft. Orig. ru. In: Razrab.i ekspluat.avtomatizir.sistemy NII v Neft.prom-sti. Moskva, SU 1981. p.76-85  
The indexing language for the Neft ("oil") data retrieval system uses the so-called positional grammar in which any object is described by index terms that have been placed in a grammatical template. The methodology of query indexing, presentation and handling used in the system, is described.

8933 33  
Niewalda, P.: Datenverarbeitung in Bibliotheken. Anmerkungen zu Winfried Gödert: Gegenwart und Zukunft der bibliothekarischen Sacherschließung. Gedanken unter Berücksichtigung des EDV-Einsatzes. (Computerization in libraries. Comments on W. Goedert: the present and future of subject cataloguing in libraries. Some thoughts considering computerization) Orig. de. Libri Vol 32, No 2, 1982. p.163-171, 10 refs.

8934 337  
Roper, V.de P.: Book review of Richmond, P.A.: Introduction to PRECIS for North American usage. Littleton, CO, US, 1981. Orig. en. Soc.Sci.Inform.Studies Vol 2, No 3, 1982. p.161-163

8935 33  
Sheel, H.; Worstenfeld, W.: Indexieren in einem internationalen Informationssystem. (INIS und der INIS Thesaurus). (Indexing in an international information system, (INIS and the INIS thesaurus)) Orig. de. Informatik 29(1982)No 4, p.30-34

### 34 Automatic Classing and Indexing

8936 34  
Dillon, M.; Federhart, P.: The use of discriminant analysis to select content-bearing words. Orig. en. J.ASIS Vol 33, No 4, 1982. p.245-253, 8 refs.  
Presentation of a method for identifying good indexing terms from frequently occurring stems which uses discriminant analysis. The method is tested by application to the Harris Survey Question database which covers 121 different surveys and includes the text of over 12 000 individual questions. The evaluation demonstrates the success of the method.

8937 34  
Fischer, H.G. (Ed.): Information retrieval und natürliche Sprache. Integrierte Verarbeitung von Daten und Texten im Modell CONDOR. (IR and natural language) Orig. de. München-New York-London-Paris: K.G.Saur 1982. 507 p. OM 86.- Contains 11 articles by different authors on features of the automatic classification and indexing experiment named CONDOR (Communication in Natural language with a Dialogue Oriented Retrieval). The project was sponsored by the German Ministry of Research and Technology during the years 1973-81 and was directed by Dr.N.Banerjee and Mrs.E.Kreutz at Siemens AG, using the Siemens computers of the 7.000 series in BS2000.  
8938 Büttel, I. et al: Beschreibung des Modells CONDOR. (Description of the CONDOR model) - 8939 Struß, P.; Zeidler, A.: Zur Integration von Datenbank- und Information-Retrieval-Funktionen. (On the integration of databank and information retrieval functions). - 8940 Leppert, M.; Stork, B.: Deskriptive Methoden zur Beschreibung einer Anwendersituation. (Description methods used in an application situation). - 8941 Neugebauer, G.: Textscanner - Ein Modell für die Analyse und Klassifikation von Dokumentsegmenten. (Textscanner - a model for the analysis and classification of document segments).  
8942 Thurmair, G.: Morphologische Verfahren in Information-Retrieval-Systemen. (Morphologic procedures in IR systems)  
8943 Haugeneder, H.: Strukturanalyse im Dokumentretrieval. (Structure analysis in document retrieval). - 8944 Schwarz, Ch.: Feinrecherche in CONDOR. Leistungsumfang, Neuansätze. (Depth retrieval in CONDOR. Extension of efficiency, new approaches). 8945 Panyr, J.: Automatische Klassifikation in IR-Systemen. (Automatic classification in IR-Systems). - 8946 Lauter, B.: Mensch-Maschine Interaktion. (Man-machine interaction). - 8946a Jäger, U.: Oberflächendesign bei Dialogsys-

temen. (Surface design in dialog systems). - 8947 Zeidler, A.: Der AUTOPILOT: Ein Hilfsmittel zur benutzer-adaptiven Dialoggestaltung. (The AUTOPILOT: an instrument in user-adaptive dialog design).

8948 34  
Ginzburg, M.P.: The morphological analysis block within the automatic indexing schema of the IR system Neft-2. Orig. ru. In: Razrab.i ekspluat.avtomatizir.sistemy NII v neft.prom-sti. Moskva, SU 1981. p.33-45, 9 refs.  
Among the four blocks of the automatic indexing system Neft-2 the second is concerned with morphological analysis and recognition. It detects lexical units of the IR language in text on the basis of the material of the first block and machine vocabularies. The procedures are described. See also 8952.

8949 34  
Knorz, G.; Techn.Hochsch., FB Informatik: Softwaresystem ALI-BABA (Adaptives lernstichprobenorientiertes Indexierungssystem, basierend auf Beschreibungen abstrakter Objekte. Version 3.0: Technische Beschreibung. Orig. de. Darmstadt, DE 1982. 68 p., 7 figs., 10 refs., DV2 82-1  
The program system described serves for the development and application of indexing functions for an automatic indexing project (WAI and AIR).

8950 34  
Mater, E.: Probleme der automatischen Inhaltserschließung von Fachtexten. (Problems of automatic subject analysis of special texts) Orig. de. III.Kolloquium zur Organisation der Informationsverarbeitung, Berlin, DE, 1978. Berlin, DE: Akademie-Verlag 1982. p.313-316  
The author distinguishes between the automatic subject analysis of texts or of data. In both cases it is necessary to know the reference system: the interest of the user. New approaches to solve the problems are indicated from work in progress at INER in Ilmenau.

8951 34  
Meder, W.: Automated indexing and the free-text method. Orig. en. In: What should users expect from information storage and retrieval systems of the 1980s? Vol.V. Neuilly-sur-Seine, FR: AGARD 1981. p.1-5

8952 34  
Smirnov, A.P.; Ginzburg, M.P.; Britvin, V.G.: General principles of developing a complex of automatic indexing facilities in the IR system "Neft-2". Orig. ru. Org.i upr.neft.prom-sti, No 8, 1981. p.28-31  
Description of the software facilities of automatic indexing of documents entered into the IR system Neft-2 composed of four functional blocks, namely: (1) primary text analysis and formulation of a standard record, (2) morphological analysis of words and their identification with elements of the IR language, (3) structural and semantic analysis of texts and extraction of main semantic components of a document contents, (4) formulation of search requests based on the previous stages of analysis. (See also 8948)

### 37 Reclassification

8953 37  
Whitshed, N.: Practical problems of reclassifying a medical school library to NLM. Orig.en. Cat.Index, No 66, 1982. p.6-8

### 38 Index Generation and Programs

See also 8949

8954 38  
Elsen, M.K.: SPINDEX in a university archives. Orig. en. Amer.Arch. Vol 45, No 2, 1982. p.190-192  
Demonstration of the possibility that a small university archive (as the one at St.Cloud State University) can take advantage of a computer program (SPINDEX) developed for the vast holdings of the National Archives and Records Service.

8955 38  
Frackenhohl, G.; Frauenknecht, H.: Computerunterstützte Erstellung und Erschließung grammatisch klassifizierter Belegregister. Orig. de. In: Lenders, W. et al; Maschinelle Auswertung sprachhistorischer Quellen. Tübingen, DE: Niemeyer 1982. p.51-98, 10 figs.; 1 tab., 9 refs.  
The procedure for an investigation of the morphology of the early newer German language regarding computerization was analyzed. The following phases of work were considered necessary: Collection and linguistic classification of data; evaluation of the data with respect under morphological aspects.

8956 38  
Stafford, R.: Australian newspaper index feasibility study. Orig. en. Canberra, AU: Nat.Lib.of Australia 1980. 46 p.

## 39 Evaluation of Classing and Indexing

- 8957 39  
Hitznberger, L.: Intellektuelle Beschlagwortung versus automatische Stichwortvergabe - eine Evaluierungsstudie. (Traditional and automatic indexing of texts: comparative analysis) Orig. de. Z.Bibl.wes.Bibliogr. (1981) Sonderh.34, p.159-168, 18 refs.  
Comparative study of indexing methods using subject headings and keywords based on several different evaluation criteria. A fragment of the union catalogue of the Agricultural Library in the FRG was used for the study. Results are reported.
- 8958 39  
Lorenz, B.: Abrufe von Titelaufnahmen mit Schlagwörtern. Eine Untersuchung an der UB Regensburg. (Recall of bibliographic units with subject headings). Orig. de.  
Z.Bibl.wes.Bibliogr. Vol 29, No 6, 1982. p.483-487, 4 refs.  
Investigation over a period of 29 months of the recall of indexed titles from the input of the Regensburg university library together with the one of other Bavarian university libraries. The percentages of recall of unaltered subject headings are listed and the 7 reasons for failure of recall are named.
- 8959 39  
Rowbottom, M.E.; Willet, P.: The effect of subject matter on the automatic indexing of full text. Orig. en.  
J.ASIS Vol 33, No 3, 1982. p.139-141, 8 refs.  
A recently suggested method for the automatic indexing of full text is applied to extracts from the Brown Corpus. Scientific and technological extracts are found to give rise to a much larger number of index terms than humanities and social science extracts. These results would appear to arise from differences in the word frequency distributions for each type of subject. (Author)
- ## 4 ON UNIVERSAL SYSTEMS
- ### 41 On Universal CS & T in General
- 8960 41  
Schulze, D.: The methodological problems of science classification. Orig. pl. Zag.Naukozn. Vol 16, No 4, 1980. p.474-493  
Various science classification systems are discussed, e.g. from the Unesco, Kedrov, Dzahaya, Jordanov, Puchikov, UDC and Wahlin. None is considered to hold a general solution or includes any positive step attempted toward that goal. All of them are incompatible with each other. One should first of all work out a new general methodological basis. Scientific disciplines should be identified and precise definitions be established. For this a number of proposals are made including the application of the fuzzy set theory.
- ### 42 On the Universal Decimal Classification
- See also 8839
- 8961 42  
Fill, K.: Einführung in das Wesen der Dezimalklassifikation. (Introduction into the essence of the Universal Decimal Classification) Orig. de. Berlin-Köln, DE: Beuth Verl. 1981. 102 p., ISBN 3-410-11237-5  
The introductory text comprises 40 pages, the rest is devoted to the UDC Mini Edition. The 15 chapters deal with 1) general problems of ordering, 2) the history of the UDC, 3) the main classes, 4) the auxiliary classes, 5) the special and 6) the general auxiliaries, 7) the parallel divisions, 8) the extension of the UDC, 9) the methodology of the UDC, 10) special classification as an extraction of the UDC, 11) the UDC as a thesaurus, 12) advantages, disadvantages and limitations of the UDC, 13) indexes, 14) application possibilities, 15) instruments for the UDC. A list of available UDC-editions is also attached.
- 8962 42  
Heigl, F.H.: Die Dezimalklassifikation. (The UDC) Orig. de. OK-Mitt. Vol 26, No 2, 1982. p.5-8, 3 refs.  
The UDC is looked at from the points of view of its usefulness for lexicography, libraries, documentation centers and as a compatible system concerning thematical, geographic and chronological compatibility.
- 8963 42  
Regt, W.F.de: Developments in the UDC - an international classification system. Orig. en.  
Int.Forum Inform.Doc. Vol 7, No 2, 1982. p.3-6, 8 refs.
- 8964 42  
Vlad, E.: A geometrical model for the UDC. Orig. en.  
Probl.Inform.Doc., Bukarest Vol 16, No 2, 1982. p.96-98
- 8965 42.24  
Christiansen, E.: The UDC relators and their possible applications. Orig. en.  
Int.Forum Inform.Doc. Vol 7, No 2, 1982. p.11-15, 7 refs.  
A thorough analysis is presented of UDC auxiliaries and their functions as classification tools. In conclusion, a comparison is drawn between UDC relators and categories in Ranganathan's faceted system. (Author)
- 8966 42.28, 43  
Andrian, A.C.: Is it possible to unify the Universal Decimal Classification and Dewey Decimal Classification? Orig. en.  
Probl.Inform.Doc., Bukarest Vol 16, No 2, 1982. p.104-108
- 8967 42; 47  
Rozenshil'd, L.K.: The development of extensions and corrections to the UDC and LBC based on a common wordlist within the BEN system. Orig. ru. Sb.nauch.tr./Biblioteki AN SSSR i AN Sojuz.Resp., No 11, 1981. p.176-182  
Because of a need to refurnish classification schedules for the same classes for the central library in the BEN network which uses UDC and for two network libraries which use LBC an experiment was undertaken to develop classification tables using common arrays of coordinate concepts and a common vocabulary. Practical work is in progress on the Plant Physiology classes in UDC and LBC.
- 8968 42.39  
Ivanov, M.V.: Concerning the problem of evaluating the quality of technical literature indexing by UDC. Orig. ru. Vopr. Bibliografoved.i bibliotekoved., No 3, 1982. p.81-91, 8 refs.
- 8969 42.98  
Burkart-Sabsoub, M.; Wersig, G.: Nutzung der OK in der Bundesrepublik Deutschland und Österreich. (Utilization of the UDC in the Federal Republic of Germany and in Austria) Orig. de. DK-Mitt. Vol 26, No 3, 1982. p.9-12, 2 refs.  
In the frame of a two years' project (from 1980-1982) of the utilization of classification systems in the FRG, a special investigation was undertaken to find out about the utilization of the UDC in libraries, documentation centers, editorial offices and elsewhere; it included also the use made of the UDC in Austria. The article describes the questionnaire, which was sent to 519 institutions in the FRG and to 42 in Austria. 32.2% answered from the FRG, 16 from Austria. The main results are stated in 20 positive and 15 negative "indicators" as well as 7 "change indicators". Concludingly 4 proposals are made.
- ### 43 On the Dewey Decimal Classification
- See also 8966
- 8970 43.07  
Comaromi, J.P.; Warren, M.J.: Manual on the use of the Dewey Decimal Classification: Edition 19. Orig. en.  
Albany, NY, US: Forest Press 1982. 578 p., ISBN 0-910608-32-6
- 8971 43.07  
Osborn, J.: Dewey Decimal Classification, 19th edition: a study manual. Orig. en. Littleton, CO, US: Libraries Unlimited 1982. 366 p., ISBN 0-87287-293-9
- 8972 43  
Davis, E.: Dewey Decimal system: a question of class (handicap, racist and homophobic attitudes). Orig. en.  
Unabashed Librn., No 41, 1981. p.25-27
- 8973 43  
Dickinson, E.; Rine, J.: Living with DDC 19; not living with DDC 19. Orig.en. Technicalities 13(1981)No 1, p.8-11, 8 refs.
- 8974 43  
Wellisch, H.H.: Book review of Custer, B.A. (Ed.): Dewey Decimal Classification and Relative Index. 3 Vols., 19th ed., Albany, NY, US, 1979, and Custer, B.A. (Ed.): Abridged Dewey Decimal Classification and Relative Index. 618 p., Albany, NY, US, 1979. Orig. en. In: Unesco J.Inform.Sci., Libr.ship Arch.Admin. Vol 4, No 3, 1982. p.204-208
- ### 44 On the Library of Congress Classification
- 8975 44  
Olstrud, L.: LC Classification key: a comparison of classes A-P with their Z counterparts. Orig. en. RQ Rev.Ad.Serv.Div. Vol 21, No 1, 1981. p.72-80, 4 refs.
- 8976 44.8  
Boll, J.J.: From subject headings to descriptors. The hidden trends in Library of Congress Subject-Headings. Orig. en. Catalog.& Classif.Quart. Vol 1, No 2/3, 1982. p.3-28, 10 figs., 52 refs.  
Examination of similarities and differences between subject

headings and descriptors and their detailed description, including also descriptors and uniterms, stylistic similarities and differences, pre- vs. post-coordination, differences in application, LC's annotated card program for children's books, form headings and form divisions, multi-level approaches at LC, subject headings by "Associational Interests".

8977 44.8  
Gorman, M.: Fate, time, occasion, chance, and change; or how the machine may yet save LCSH. Orig. en. Amer.Libr. Vol 11, No 9, 1980. p.557-558  
Description of the shortcomings of the Library of Congress List of Subject Headings. Lists improvements that can be made by computerising the scheme.

8978 44.8  
Greenberg, A.M.: Scope notes in Library of Congress Subject headings. Orig. en. Cat.Classif.Quarterly Vol 1, No 2/3 1982. p.95-104, 15 refs.  
The scope notes are examined for 1) adherence to principles enunciated in the introduction to the LCSH, 2) peculiarities of subject headings associated with such notes, 3) the structure of the notes, and 4) typical patterns associated with certain categories of subject headings. (Author, abbr.)

8979 44.8  
Holley, R.P.; Killheffer, R.E.: Is there an answer to the subject access crisis? Orig. en. Cat.Classif.Quarterly, Vol 1, No 2/3, 1982. p.125-133, 19 refs.  
It is proposed that the Library of Congress should provide an updatable machine readable file of its complete cross reference structure. This file should contain all references used in the Library of Congress Public Catalogue, since much of LC's subject heading practice is based upon its cross-reference structure. (Author, abbr.)

8980 44.8  
Kirtland, M.; Cochrane, P.: Critical views of LCSH - Library of Congress Subject Headings. A bibliographic and bibliometric essay. Orig. en. Cat.Classif.Quarterly Vol 1, No 2/3, 1982. p.71-94, 126 refs.  
This bibliography confines itself to the literature which critically evaluated the Library of Congress List of Subject Headings (LCSH) and library catalogues which use them. The literature search was limited to a period from post-World War II to 1979. The bibliography is divided into 9 sections. General bibliometric remarks are followed by the sections. There are also remarks on how references have contributed to the discussion of a certain aspect of LCSH.

8981 44.8  
Mischo, W.: Library of Congress Subject Headings. A review of the problems, and prospects for improved subject access. Cat.Classif.Quart. 1(1982)No 2/3, p.105-124, 69 refs.  
Examination of the shortcomings and limitations of the LCSH, regarding specificity, inconsistent identification and selection of concepts, retention of outmoded headings, inadequate cross reference structure, and low level of indexing exhaustivity. Reasons for these shortcomings are given as well as methods to improve subject access in libraries, for both online and printed catalogue environments. (Acc.author)

8982 44.8  
Perreault, J.M.: Latest versus contemporaneous place names in Library of Congress Subject Headings. Orig. en. Cat.Classif.Quarterly, Vol 1, No 2/3, 1982. p.29-69, 8 figs., 12 refs.  
Attempt at clarification of the structure and use of place names as elements in LCSH by dividing these into 'facets' and 'foci' concerning the system itself and its application. Foci are mutually exclusive operations sharing some common factors: every LCSH containing a place name as an element can be characterized as exemplifying each of the enumerated facets by means of one of that facet's foci. The following classification of facets evolves: (1) Citation order, (2) Period of coverage, (3) Form of phrase, (4) Grammatical form. These are described in detail with many examples.

#### 45 On the Bliss Classification (BBC)

8983 45  
Preddle, Ch.: The use of Bliss at Or.Barnardo's library. Orig. en. Bliss.Classif.Bull. Vol 7, No 3, 1982. p.10-12

#### 47 On the Library Bibliographical Classif. (LBC/BBK)

See also 8967, 9020

8984 47  
BeIen'kaya, M.V.: Principal trends in the elaboration of supplements and corrections to the LBC in the biological and chemical sciences. Orig. ru. Sb.Nauch.Tr.-Bibl.Akad.Nauk SSSR Akad.Nauk Sojuz Resp., No 2, 1981. p.20-30, 12 refs.

8985 47  
Ecker, J.: Die Optimierung der adaptierten Klassifikations-schemata der sowjetischen Bibliothekarisch-Bibliographischen Klassifikation. (Optimisation of the adapted scheme of the Soviet Library-Bibliographical Classification) Orig. de. Zbl.Bibl.wes. Vol 96, No 1, 1982. p.26-30  
Description of the improvements of the adapted LBC scheme at the University Library of Bratislava.

8986 47.6-99  
Paneyah, A.V.: Experience in the systematization of literature, religion and atheism at the Library of the Leningrad Section of the Ethnography Institute, USSR Academy of Sciences. Orig. ru. In: Sb.Nauch.Tr.-Bibl.Akad.Nauk SSSR Akad.Nauk Sojuz Resp., No 2, 1981. p.52-69, 9 refs.

8987 47  
Panov, A.A.: On the conception of development of the Soviet LBC. Orig. ru. In: Sb.Nauch.Tr.-Bibl.Akad.Nauk SSSR Akad.Nauk Sojuz Resp., No 1, 1981. p.164-175, 15 refs.

8988 47  
Sukhmaneva, E.G.; Nekrasov, B.V.: On the conception of the main range of the biological sciences. Orig. ru. In: Sb.Nauch.Tr.-Bibl. AN SSSR, AN Sojuz Resp., No 2, 1981. p.5-19, 10 refs.

8989 47  
Schulz, H.: Der Stand der Arbeiten an der Adaption der mittleren Ausgabe der sowjetischen Bibliothekarisch-Bibliographischen Klassifikation (BBK/M). (Adaptation of the medium edition of the Soviet Library-Bibliographical Classification: a progress report) Orig. de. Zbl.Bibl.wes. Vol 96, No 1, 1982. p.24-26, 8 refs.  
A progress report for the second half of 1981, covering activities carried out under the Methodological Center. Mention is made of publications in connection with the LBC adaptation.

8990 47  
Zharikova, L.A.: Application of a categorical analytic-synthetic method for the completion of the LBC subsection "L85 Electronics". Orig. ru. In: Sb.Nauch.Tr.-Bibl.Akad.Nauk SSSR Akad.Nauk Sojuz Resp., No 2, 1981. p.39-51, 2 refs.

#### 48 ON OTHER UNIVERSAL CS

8991 48  
Lehmann, K.: Die neue Gliederung der Belletristik. Zur Einführung der überarbeiteten Gliederung der Hauptgruppe R Belletristik der KAB/E. (The new outline of Belles Lettres of the KAB/E) Orig. de. Bibliothekar, No 9, 1982. p.393-399  
(KAB = Classification for General Libraries in the GDR)

### 5 ON SPECIAL OBJECTS CS (TAXONOMIES)

(Arrangement follows the ICC as outlined in IC 9(1982)No.2)

8992 50  
Konstantinov, Y.N.: The classification of material objects. Parts of an IRS for scientific and technical reference data. Orig. en. Autom.Doc.Math.Linguist. Vol 14, No 2, 1980. p.57-68, 5 figs., 29 refs.  
Various systems are used to class the material objects of the world for IR purposes. Difficulties resulting from the lack of a convenient general classification with natural relationships among material objects emerged. A new natural classification is proposed.

8993 5261  
Adamson, G.W.; Bawden, D.: Comparison of hierarchical cluster analysis techniques for automatic classification of chemical structures. Orig. en. J.Chem.Inform.Comput.Sci. Vol 21, No 4, 1981. p.204-209, 11 figs., 19 refs.  
Several hierarchical cluster analysis methods were applied to a set of benzenoid compounds by using structural features automatically derived from Wiswesser Line Notation. Comparisons of the differences in classification, due to choice of clustering algorithms and data standardization techniques were made. (Author)

8994 5515.25  
Lin, Y.K.; Fu, K.S.: Automatic classification of cervical cells using a binary tree classifier. Orig. en. Pattern Recogn. Vol 16, No 1, 1983. p.69-80, 19 refs.  
A k-means clustering algorithm for designing binary tree classifiers is introduced for the classification of cervical cells. At each nonterminal node of the designed binary tree classifier, two sets of effective features are selected: one is based on the Bhattachayya distance, a measure of separability between two classes; the other is based on the merits of classification accuracy. The classification result has shown the effectiveness of the features and the binary tree classifier used. (Author)

- 8995 .5523  
Grimson, R.C.; Chavigny, K.H.: A statistical test for classification, with applications to the characterization of pathogens according to antibiotic susceptibility patterns. Orig. en. *Biometrics* Vol 37, No 4, 1981. p.753-761
- 8996 5538.25  
Diehr, P. et al: Cluster analysis to determine headache types. Orig. en. *J.Chronic Diseases* Vol 35, No 8, 1982. p.623-633
- 8997 5538.25  
Lebowitz, M.D.: Multivariate analysis of smoking and other risk factors for obstructive lung diseases and related symptoms. Orig. en. *J.Chronic Diseases* 35(1983)No 9, p.751-758
- 8998 5572  
Borchardt, D.H.: Book review of ASCO Draft: Australian standard classification of occupations: professional and related occupations. Canberra: Dept. of Employment and Youth Affairs 1982. Orig. en. *Austr.Lib.J.* Vol 31, No 3, 1982. p.31-34
- 8999 561  
Harrington, D.P.; Fleming, T.R.: A class of rank test procedures for censored survival data. Orig. en. *Biometrics* Vol 69, No 2, 1982. p.553-566
- 9000 574  
Seinsch, H.O.: Klassifizierung von Isolationssystemen für umlaufende elektrische Maschinen. (Classification of insulating systems for rotating electric machines) Orig. de. *DIN-Mitt.* Vol 62, No 1, 1983. p.16-
- 9001 576  
Fischer, H.J.: Zollnomenklatur und technische Fachsprache oder vom Sinn des Haarespaltens. (Customs nomenclature and technical language or on the meaning of hairsplitting) Orig. en. *DIN-Mitt.* Vol 62, No 2, 1983. p.67-72, 2 tabs.; 3 figs. Under UNO assignment the Brussels Council for Customs is about the elaborate a Harmonized System for the Naming and Coding of Commodities of the International Trade, in order to introduce a unified nomenclature in all fields, e.g. of technology, commerce, transportation, customs, statistics. In a number of examples from the area of materials and semi-finished products the modernization efforts concerning terminology updating and other interests are shown.
- 9002 582  
Wong, J.S.: USGS numbering system for maps: letter in reply to M.B.Ansari. Orig. en. *Assoc.Map Libr.Inform.Bull.* Vol 12, 1981. p.228
- 9003 5826  
Kedrovskaya, L.G.; Mshevelidze, A.I.; Ukhin, Y.Y.: Services of scientific and technical information agencies. Orig. en. *Sci.Tech.Inform.Process.*(1981)No 2, p.67-77, 4 figs., 9refs. Information services are discussed concerning their production, classification and a general format for their description. It is intended to develop the nomenclature and a classification of information services.
- 9004 5829  
Gavrilov, Ju.A.: Classification of discipline-oriented and subject indexes to Marxist-Leninist literature. Orig. en. *Sov.bibliogr.*, No 4, 1981. p.3-11 Suggestion to establish 13 classes for the works of the founders of Marxism-Leninism and literature about them. Also, the main stages of the preparation for the compilation of a discipline-oriented (subject) index are considered.
- 9005 5829  
Nikitina, L.N.: Classification of supporting indexes of literature. Orig. ru. In: *Aktual.probl.bibliotekoved., bibliografoved., i knigoved.* Sov.Moldavii Kishinev, SU 1981. p.86-87 The purpose for this classification is to produce groups of "keys" whose quantitative and qualitative parameters are close in value. The four criteria for the classification are named.
- 6 ON SPECIAL SUBJECTS CS & T**
- (Arrangement follows ICC as outlined in IC 1982-2, p.87)
- 9006 619-32, -777, -787  
Pelouch, J.J. et al: Vocabulary of aerospace safety terms pertaining to cryogenic safety, fires, explosions, and structural failure. Orig. en. Cleveland, OH, US: Nat.Aeronautics & Space Admin. 1976. 113 p., NASA TMX 73521
- See also 8879
- 9007 627  
Bähr, K.: Das Thesauruskonzept des Fakteninformationsrecherchesystems FAKIR der EDV-Kooperationsgemeinschaft der chemischen Industrie. (The thesaurus concept of the data retrieval system FAKIR in the chemical industry DP cooperative). Orig. de. *ZFI-Mitt.*, No.45, 1981. p.105-115, 1 ref. The thesaurus comprises some 11 000 terms, 8000 names of chemical substances and factual data. It is an aggregate of special thesauri developed by the partners in the FAKIR data retrieval system. The terms carry notes relating them to their original thesaurus. The thesaurus updating, data input and accessing procedures are described. A modular software system is used.
- 9008 636  
Finley, F.N.: A philosophical approach to describing science content: an example from geologic classification. Orig. en. *Sci.Educ.* Vol 65, No 5, 1981. p.513-519, 18 refs. An example is presented which can be used by philosophers of science in their scientific teaching. Terms are presented which can be used for characterising and comparing classification systems of different disciplines. Application cases are given from the field of geology.
- 9009 636  
Unksova, M.V.: Changes in the statistical characteristics of the vocabularies of computer-based geological IR systems with file growth. Orig. ru. Moskva, SU: VINITI 1982. 16 p., 7 refs., Dept.No.876-82 Presents the findings of an analytical study which sought to relate changes in the statistical characteristics of the vocabularies of data and document retrieval systems to information file increments. The interrelated changes in the frequency and likelihood of occurrence of terms (worda) in dictionaries was studied. The vocabulary filing curve is well approximated by a parabola and the distribution curve of term frequency and likelihood of occurrence, by a hyperbola.
- See also 8948, 8952
- 9010 639.75  
Marchalot, M.-L.: Une expérience de thésaurus d'interrogation (Experience with an on-line thesaurus) Orig. fr. *Documentaliste* Vol 19, No 6, 1982. p.203-207, 12 refs. The original conception of the CNEOX bibliographic data base, DOCCOCEAN managed by the Mistral software (i.e. four different data bases on oceanography, merged in only one), has brought an answer to some actual problems of online bibliographic searches. The main difficulty is that the user must think of the four different indexing methods of the producers. The on-line thesaurus concerning the geographical descriptors on France is a kind of a compromise between these four methods. The aims of this thesaurus, the choices for the hierarchy and the organization of the work are explained. (Author)
- 9011 646  
Horvath, P.: The AGROVOC thesaurus. Orig. hu. *Mezőgazd.Elelmiszertip.Könyvt.Tájék.*, No 4, 1981. p.11-13 Report on the status of the AGROVOC thesaurus which is to be introduced on a mandatory basis in AGRIS beginning from 1983.
- See also 9097
- 9012 6532  
Wiener, F.; Kanter, Y.; Kol, S.; Barzilai, D.: Computer implementation of the New Diabetes Classification scheme. Orig. en. *Meth.Inform.Med.* Vol 21, No 4, 1982. p.191-196, 13 refs. The classification scheme was implemented using a system for the simulation of medical reasoning which allows the physician to formulate his medical knowledge as a series of logical inferences and to specify those combinations of clinical findings which confirm or reject each inference. Alphabetical lists of the texts of medical statements appearing in the knowledge base are used to specify patient data. The system allowed to computerize the new classification scheme in a relatively short time and with a minimum of effort. The system has correctly classified nearly 100 patients. (Author,abbr.)
- 9013 6538  
Kazakova, L.M.: Comparative study of the construction principles of classification tables in medicine. Orig. ru. *Sov.Bibl.bibliogr.klassifik.*, No 3, 1981. p.128-154 The paper presents the results of a study of several medical library classifications and medical classes of general classification systems on the third level.
- See also 8746
- 9014 666  
Strohhofer, J.: Thesaurus: for use in a law library. Orig.en. Feinberg, H. (Ed.); *Mini-thesauri.* Brooklyn, NY, US: Pratt Inst., Grad.School of Libr.and Inform.Sci. 1980. p.127-134
- 9015 675  
Vinogradov, S.N.; Glumov, V.I.; Lomakina, O.A.; Maksimov, V. R.; Rusova, N.Y.: Linguistic support to an information system for the building materials industry. Orig. en. *Autom.Doc.Math.Linguist.* Vol 15, No 1, 1981. p.37-47, 16 refs.

The composition and structure of the linguistic support are determined by the functions and purposes as well as by the forms of documents circulating in industry. The paper treats search strategy, the participation of paradigmatic relationships in retrieval and results from experimental retrieval.

9016 Dezsö, L.: On typological characterologies. Orig. en. Acta Linguistica. Acad.Sci.Hung. Vol 29, No 1-2 1979. p.107-128

9017 Richter, E.: Überlegungen zu einer Typologie der Tonsprachen. (Considering a typology of sound languages). Orig. en. Z.Phonetik, Sprachwiss.Komm.forsch. Vol 35, No 2, 1982. p.138-143

9017a Wexler, P.: Marrano Ibero-Romance. Classification and research tasks. Orig. en. Z.Roman.Philol. 98(1982)No 1/2, p.60-108

9018 Palladino, J.G.: Opera thesaurus. Orig. en. Feinberg, H.(Ed.) Mini-thesauri. Brooklyn, NY, US: Pratt Inst., Grad.School of Libr.and Inform.Sci. 1980. p.8-36

9019 Subject headings. Orig. en. Cat.Serv.Bull.(1982)No 15, p.33-9  
Presentation of practical modalities concerning religious aspects and geographical names.

9020 Golling, R.: Der neue systematische Katalog für "Religionswissenschaft. Theologie. Atheismus" in der Universitätsbibliothek Berlin. (The new systematic catalogue for "Religion. Theology. Atheism" in the University Library of Berlin) Orig. de. Zbl.Bibl.wes. Vol 96, No 8, 1982. p.359-364, 21 refs.  
It is stated that the new Soviet Library Bibliographical Classification served as a guideline for the structuring of the new subject catalogue in systematic arrangement, that, however, it had to be adapted to the requirements of German universities and their theological faculties, something that does not exist in the USSR.

## 7 CLASSIFICATION AND LANGUAGE

### 71 General Problems of Natural Language

See also 8851, 8853

9021 Kim, V.V. (Ed.): The semiotic aspects of scientific knowledge. Orig. ru. Swerdlowsk, SU: Ural.Universitet 1981. 157 p.  
Collection of scientific papers devoted to the systems approach in studying regularities of scientific knowledge.

9022 Trubina, E.G.: The strengthening of the active role of the language of science as a tendency in the development of cognition. p.37-42. - 9023 Medvedeva, O.Ju.: The specific operational features of the language of science. p.42-47, 8 refs. - 9024 Abeljan, N.Ju.; Kim, V.V.: The style of scientific thinking and the language of science. p.47-55, 19 refs. - 9025 Sil'nickij, G.G.; Slavina, A.V.: The language sign and the problem of new knowledge emergence. p.56-62, 9 refs. - 9026 Serova, I.A.: The role of language in the process of establishment and development of scientific theory as a systemic truth. p.76-80, 7 refs. - 9027 Bazhanov, V.A.: The limitations of the reflective capabilities of formalised languages. p.116-121, 6 refs.

9028 Comrie, B.: Language universals and linguistic typology. Syntax and morphology. Orig.en. Oxford, GB: Blackwell 1981. 263p.

9029 Salveter, Sh.C.: Book review of Barr, A., Feigenbaum, E.A. (Eds.): The handbook of artificial intelligence, Vol.1. Los Altos, CA, US: William Kaufman, Inc.1981. 409 p. Orig. en. Amer.J.Comput.Ling. Vol 8, No 1, 1982. p.45

### 72 Semantics

9030 Agamdzhanova, V.I.: Contextual semantics. Orig. ru. Riga, SU: Latv.Universitet 1982. 123 p., 141 refs.  
Collection of papers on specific issues in Germanic and Romance linguistics in comparison with the Russian and Latvian languages. The findings are reported of investigations concerned with semantic (including classificational and diachronous aspects), distributional, and formal properties of the text, sentence and language vocabulary. Also studied are relations and functional features of elements belonging to dif-

ferent levels, as well as to the text-forming role of grammatical categories, constructions, nominalisation and stylistic devices. (Orig.abstr.)

### 73 Automatic Language Processing

9031 Brody, E.J.: A procedure for the unsupervised abduction of linguistic distributional classes in probabilistic languages. Orig. en. Int.J.Comput.Inform.Sci. 11(1982)No 3, p.193-210, 4 refs.

9032 Marusenko, M.A.: Homogeneity in empirically defined sublanguages and the distributions of compound scientific terms. Orig. en. Autom.Doc.Math.Linguist. Vol 14, No 4, 1980. p.51-59, 2 figs, 7 tabl., 16 refs.  
The purpose of the paper is to define the statistical homogeneity of empirically defined sublanguages, together with the selection of a preliminary theoretical model for the distributions of compound scientific terms in scientific lexicography and in real scientific texts.

9033 Piotrovskij, R.G.: Text processing by methods of engineering linguistics: Abstracts of papers presented at the conference, Minsk, Febr.1-2, 1982. Orig. ru. Minsk, SU: Gos.Ped.Institut In.Jaz. 1982. 213 p.  
Among the 8 topics treating also artificial intelligence and machine translation there was one concerned with linguistic issues in creation of IR systems and systems of automatic abstracting and indexing.

9034 Rabiner, L.R.; Wilpon, J.G.: A two-pass pattern-recognition approach to isolated word recognition. Orig. en. Bell Syst. Techn.J. 60(1981)No 5, p.739-766, 16 figs.; 2 tabs., 18 refs.  
To reduce the error rate of recognition of spoken words the recognition decision is made in two passes.

### 74 Grammar Problems

See also 8886, 9062

9035 Narton, L.M.; Pacak, M.G.: Morphosemantic analysis of compound word forms denoting surgical procedures. Orig. en. Meth.Inform.Med. Vol 22, No 1, 1983. p.29-36, 6 refs.  
Description of a methodology for automated morphosemantic segmentation and semantic interpretation (paraphrasing rules) of medical compound word forms derived from Greek and Latin and denoting surgical procedures. Possible applications of such a procedure are stated.

9036 Viks, Ue. (Ed.): Akad.Nauk Estonskoj SSR, Otdel.Obshchestvenn. Nauk: Computational linguistics and related topics. Summaries of a symposium, Reval, SU, Nov.24-26, 1980. Orig. en. Reval, SU 1980. 124 p., 13 tabs., 109 refs.  
The volume contains 36 contributions of which the following 10 have been listed here:

9037 Gerd, A.S.: A computer-aided terminological data bank in the light of the theory of scientific and technical lexicography. - 9038 Ginzburg, E.L.; Glozman, J.M.; Tsvetkova, L.S.: On grammars of mistakes (according to aphasiological data). - 9039 Gridneva, L.M.; Darchuk, N.P.; Muravitskaja, M.P.; Perebejnos, V.I.: Symmetry elements in texts of scientific abstracts. - 9040 Grigoriev, H.G.; Marusenko, M.A.: An algorithm of compiling a terminological dictionary word-list by a computer. - 9041 Grigoriev, V.I.: Frequency distribution of letters and their ranks in a running text. - 9042 Grjaznuchina, T.A.; Komarova, L.I.; Kritskaja, V.I.: Functional peculiarities of the noun in scientific abstracts. - 9043 Lecomtsev, Y.K.: Notes on an algebraic model of lexical fields. - 9044 Lecomtseva, M.I.; Lecomtsev, Y.K.: Towards algebraic modelling of linguistic semantics. - 9045 Mamedova, M.G.; Skorohodko, E.F.: Computerized network analysis of lexical systems. - 9046 Martemjanov, Y.S.: A word correlated syntax and text analysis.

### 75 Question-Answering Systems,

#### Online Techniques

See also 9010

9047 Duckitt, P.: The value of controlled indexing systems in on-line full text databases. Orig. en. 5th International Online Information Meeting, London, GB, GBR/USA, 1981. Oxford, GB; Medford, NJ, US: Learned Inform.: p.447-453, 14 refs.  
A controlled indexing language is used in the toxicology database called MARTINDEX. The idea is refuted that one may search directly for subjects in a text.

9048 75  
Rybashkin, V.Sh.: Developing data files by conversing with a classification system. Orig. ru. Vopr.inf.teorii i prakt., No 47, 1982. p.82-99, 4 refs.  
The article introduces the classification system and treats the scanning algorithm, the software implementation, the conversational IR system, the indexing of documents and the terminology and dictionary service.

## 76 Lexicon/Dictionary Problems

See also 8806, 8807, 8808, 8817, 8818, 8821, 8822

9049 76  
Interpart Educ.Concepts: The European-Arabic languages terminological data bank. Prel.Rpt. 2 Vols. Orig. en. Leinfelden-Echterdingen, DE 1982. 450 p., 150 figs.; 12 tabs., 36 refs.  
The project for the establishment of a Arabic data bank, largely for linguistic and lexicographical purposes, proposes the collaboration of the Siemens Language Service Department and Interpart Educational Concepts in the application of modern data processing methods to the work of standardizing the Arabic language and compiling an Arabic terminology for which the Bureau of Coordination of Arabization in the Arab World (BCAAW) has been responsible. The BCAAW would gain access to the European terminology data bank TEAM. Computer processing of Arabic and Latin characters would be handled by Interpart. The study analyzes the problems and presents a plan for implementing the project. Vol.2 contains 4 annexes with the MATER format, a description of the Delta System 700, samples of Arabic typesetting, etc.

9050 76  
Mamedova, M.G.; Skorohod'ko, E.F.: A computerized system for analyzing terminological lexics. Orig. en. Autom.Doc.Math. Linguist. Vol 15, No 1, 1981. p.7-16, 3 figs., 5 refs.  
The creation of language support to IR systems involves the definition of dictionaries in the information language. A promising approach foresees that the basic composition of the thesaurus can be determined before the database is accumulated. It facilitates the transformation of a terminological system for an area of knowledge into an IR thesaurus. The paper considers the first phase of such a transformation: analysis of terminology with a view to editing the terminological dictionary as the basis for the future thesaurus.

9051 76  
Mentrup, W. (Ed.): Konzepte zur Lexikographie. Studien zur Bedeutungserklärung in einsprachigen Wörterbüchern. (Lexicographical conceptions. Studies in meaning explanations of monolingual dictionaries) Orig.de. Tübingen, DE: Niemeyer 1982. 196 p., 9 figs.; 5 tabs., 294 refs., Reihe German.Linguist., No.38, ISBN 3-484-31038-3  
Among the six contributions of the 3rd Lexicographical Colloquy held from Febr.19-20, 1981 in Mannheim, which was concerned with technical language and ordinary language the following treats a terminological problem: 9052 Schaefer, B.: Untersuchungen zur Kodifikation der Wirtschaftssprache in fachsprachlichen und gemeinsprachlichen Wörterbüchern. (Investigations on the codification of the economic language in technical and general dictionaries).

9053 76  
Zagidullin, R.Z.: The lexicological presentation of certain types of terminological synonyms. Orig. ru. Funks.stil'i i prepodavanie in.Jaz.. Moskva, SU 1982. p.238-245  
Reports on research done on dictionary definitions of disease names taken from two English monolingual dictionaries using the continuous sampling technique. The lexicological presentation of the following four kinds of synonyms is considered: ideographic, ideographic-stylistic, associative and associative-stylistic. Four recommendations concerning terminological synonyms are given.

9054 76  
Whitlock, P.J.: A descriptor bank of social science terms. Orig. en. Int.Classif. Vol 9, No 3, 1982. p.145-151, 14 refs.  
Proposals for the organization and creation of a Descriptor Bank of terms used in Social Science Thesauri. The sections describe the content and layout of descriptor bank entries, the record formats used in existing thesauri and the software necessary for the creation of the descriptor bank and its subsequent use as a tool in the development of the Integrated Thesaurus. Finally, estimates of the human and machine resources necessary are presented. (Author, abbr.)

## 77 General Problems of Terminology

See also 8790, 8926, 9032

9055 77  
Leichik, V.M.; Smirnov, I.P.: State-of-the-art and development trends of terminological work in the USSR. Orig. en.

Sci.Tech.Inform.Process., No 2, 1981. p.8-14, 25 refs.  
Five major areas of terminological work in the USSR are described: terminological dictionaries, terminological organization, terminological standardization, translation of terms, and terminological editing.

9056 77  
Hohnhold, I.: Übersetzungsorientierte Terminologiearbeit. (Translation oriented terminology) Orig. de. Lebende Sprachen Vol 28, No 1, 1983. p.2-6, 17 refs.

9057 77  
Golovin, B.N.: The term and the word: An interuniversity collection of papers. Orig.ru. Gor'kij: Universitet 1981. 150 p.  
The collection of papers comprises a.o. the following topics: terms and their assimilation in the course of training, problems in term system typology, approaches to term systems discrimination and others, as follows:  
9058 Golovin, B.N.: Types of terminological systems and grounds for their discrimination, p.3-10. - 9059 Pekarskaja, L.A.: Requirements for the "ideal" term in real-life terminologies, p.22-28. - 9060 Makarihina, O.A.: A contribution to the study of term-formulation relationships, p.29-38, 7 refs. 9061 Lavrova, N.N.: A note on linguistic terms polysemy, p.45-52, 10 refs.

## 78 Subject-Oriented Terminology Work

See also 8790, 9022-24, 9035, 9052, 9054

9062 78  
Gerbert, M.: Semantische Analyse fachsprachlicher Satzgefüge. (Semantic analysis of special language syntax) Orig. de. Fachsprache Vol 4, No 4, 1982. p.174-180, 9 refs.  
Paper deals with the semantic properties of language for special purposes (LSP). Two examples from scientific texts are quoted to indicate the utilization of verbal valencies and the defineability and nominalization of the verb. Discussion of older technical texts which show that the semantic interpretations given for the first examples correspond to the actual usage of the time when LSP began to develop. Today's scientific language can be traced back to the private correspondence of scholars in the 17th century by means of the publications of learned societies. (Author, abbr.)

9063 78  
Miyajima, T.: A study of specialized terminology: the problem of technical terms. Orig. en. Int.Classif. Vol 9, No 3, 1982. p.152-154  
Digest of a report describing a set of terminological studies mostly concerned with the comparison of Japanese with English, German, French, Russian and Chinese terms. The terminology in enterprises was also investigated as well as the sentence structures and the changes in the terminologies of some fields.

9064 78  
Kittredge, R. (Ed.); Lehrberger, J. (Ed.): Sublanguage. Studies of language in restricted semantic domains. Orig. en. Berlin-New York: W.de Gruyter 1982. 240 p.  
Contains the following 11 contributions: 9065 Sager, N.: Syntactic formatting of science information. - 9066 Hirschmann, L.; Sager, N.: Automatic information formatting of a medical sublanguage. - 9067 Lehrberger, J.: Automatic translation and the concept of sublanguage. - 9068 Kittredge, R.: Variation and homogeneity of sublanguages. - 9069 Grosz, B.: Discourse analysis. - 9070 Charrow, V.; Crandall, J.A.; Charrow, R.: Characteristics and functions of legal language. - 9071 Moskovich, W.: What is a sublanguage? A notion of sublanguage in modern Soviet linguistics. - 9072 Hiz, H.: Specialized languages of biology, medicine and science and connections between them. - 9073 Zwicky, A.M.; Zwicky, A.D.: Register as a dimension of linguistic variation. - 9074 Bellert, I.; Weingartner, P.: On different characteristics of scientific texts as compared with everyday language texts. - 9075 Harris, Z.: Discourse and sublanguage.

9076 78-6  
Grawitz, M.: Lexique des sciences sociales. Orig. fr. Paris, FR: Dalloz 1981. 384 p.

9077 78-652  
Bachrach, J.A.: Mondes changeants. (Changing worlds) (Editorial to an issue treating the terminology of the handicapped.) Orig.fr, en. Terminol.Bull., No 42, 1982. p.1-65  
This number contains 6 articles (in French, German and English) in addition to the introductory one by J.A. Bachrach as follows: 9078 Lemaitre, Y.: Une terminologie plutôt "handicapée"... 9079 Haizmann, R.: Rehabilitation am Kurort, fünfjährige Erfahrungen. - 9080 Lurquin, G.: Le langage de l'aphasologie. - 9081 Haizmann, R.: Rehabilitation und Prävention, interdisziplinäre Aufgabe der Gesellschaft. - 9082 Wood, Ph. H.N.: The language of disablement: a glossary relating to disease and its consequences.

9083 78-82/83  
Wenzel, B.: Einige begriffliche Festlegungen über die Speicherung und Wiedergewinnung von Informationen. (Some definitions on the storage and retrieval of information) Orig. de. In: Manystil, A. (Ed.) et al; Datensammlungen, Auskunftssysteme und Computeranwendungen in der Landwirtschaft. Stand, Nutzung, Ausblick. Arb.tagung, Weißenstephan, DE, März 1980 Stuttgart, DE: Ulmer 1981. p.423-424, 2 refs.  
Definitions are given of the concepts 'information', 'data', 'data set', 'data bank', 'information system', 'documentation system', 'data bank system', 'data bank management system'.

9084 78-83  
Pierson, G.: Informatique = data processing. Informatics = sciences de l'information. Orig. fr. Banque Mots, No 21, 1981. p.19-43, 1 tab., 25 refs.  
The terms of the title are analysed with citations showing their semantic limits and their ambiguities in French, British and American English, German (FRG and GDR) and in Russian. Some recent or future neologisms in this field are given.

9085 78-83  
Schuck, H.J.: Terminologie der graphischen Datenverarbeitung. (Terminology for computer graphics) Orig. de. Lebende Sprachen Vol 27, No 3, 1982. p.104-106, 1 tab.  
'Computer graphics' is understood to comprise all those techniques and applications of a digital computer with a data input or output in the form of linear drawings or the screen process. The German term is "Graphische Datenverarbeitung". The respective part of the international standard ISO 2382, Pt.13 is presented with proposals for German equivalents.

9086 78-83  
Grieger, I.: Ein Plädoyer für deutsche Begriffe in der graphischen Datenverarbeitung. (Pleading for German terms in computer graphics) Orig. de. Angew.Inf. Vol 24, No 6, 1982. p.307-319, 4 figs., 5 refs.  
Treats the German concept constructions in computer graphics with the aim to introduce their new terms and to propose a unified terminology. Such terms are not only needed for translation purposes but also for education and training.

9087 78-84/3  
Schindler, S.: Einige Bemerkungen zu den neuen Schlagworten der Kommunikationstechnologie und Büroautomation. (Some remarks concerning the new terms of communication technology and office automation) Orig. de. Informatik-Spektrum, Heidelberg, DE Vol 5, No 1, 1982. p.5-10, 15 refs.  
The new forms of technical communication and office automation such as Teletx, Videotex(t), Telefax, Bus/Ring-System, Gateway, etc. have brought with them a multitude of new expressions which should be explained and systematized for terminological purposes.

9088 78-88  
Marušenko, M.A.: Computer measuring of lexical connection of terminological systems relating to a certain branch of industry. Orig. ru. Tartu Ülikooli Toimetised, No 591, 1981. p.74-81, 8 refs.  
Consideration is given to methods of measuring the relationship of complex linguistic systems as exemplified by four radio-engineering terminological systems. An approach is adopted based on registering the value of every lexical unit in the respective system. The new quantitative criterion for measuring the relationship is worked out and a linguostatistical experiment is realized on the computer. The experimental data obtained have been evaluated and tested. (Orig.modif.)

9089 78-91  
Bense, G.: Terminologische Probleme der kommunikativ-funktionalen Sprachbetrachtung. (Terminological problems of a look at language from a communication-oriented point of view) Orig. de. Kommunikativ-funktionale Sprachbetrachtung. Bd.I. Halle (Saale), DD 1981. p.39-46

9090 78-91/6  
Königs, F.G.: Zentrale Begriffe aus der wissenschaftlichen Beschäftigung mit Übersetzen. (Central concepts of a scientific treatment of translating) Orig. de. Lebende Sprachen 27 (1982)No.4, p.145-150; 28(1983)No.1, p.6-8, 48, 91 refs.  
Introduction into the problems encountered in a scientific understanding of the translation work and discussion of concepts such as 'back transformation', 'covert translation - overt translation', 'multiple stage-translation', 'rank-bound translation', 'equivalence', 'invariance', 'translatability'.

9091 78-94  
Huber, R.E.; Rieth, R. (Ed.): Glossarium Artis. Systematisches Fachwörterbuch. 10 Bde. (Art glossary. Systematically arranged. 10 Vols) Orig.de. München-New York-London-Paris: K.G.Saur Verlag 1977-  
All ten volumes are published, some already in their 2nd ed. They are in German and French and in some volumes (5, 7-10) also in English.

## 8 APPLIED CLASSING AND INDEXING (C & I)

### 81 General Problems of Applied C & I

9092 815  
Univ.bibl.München: Regeln für den Schlagwortkatalog der Universitätsbibliothek München. Orig.de. München, DE 1979. 87 p.

9093 815  
Kluge, F.: Der linguistische Schlagwortkatalog für die Slawisch-Baltische Bibliothek: Einige Bearbeitungsanleitung. (The linguistic subject catalogue for the Slavic-baltic library: Guidelines for cataloguing) Orig. de. Münster (Westf.), DE: Selbstverlag 1981. 50 p.

9094 815  
Kohl, E.: Terminologische Kontrolle bei den RAK, den neuen deutschen Regeln für den Schlagwortkatalog und den Thesauri von Datenbasen bei deutschen EURONET Hosts. (Terminological control in the RAK (rules for the alphabetic catalogue), the new German rules for the subject catalogue and the database thesauri of German EURONET hosts) Orig. de. Z.Bibl.wes.Bibliogr. Vol 29, No 6, 1982. p.463-480, 20 refs.  
Attempt at drawing a conclusion for the German library subject cataloguing rules from the experiences and insights gained through the work with thesauri.

9095 815  
Sträter, H.H.: Wie regelt man Inhaltserschließung? Anmerkungen zum Entwurf der Regeln für den Schlagwortkatalog. (How does one make rules for subject cataloguing? Comments on the draft 'Rules for the subject catalogue') Orig. de. Buch u.Bibliothek Vol 34, No 11/12, 1982. p.825-828

### 86 C & I of Secondary Literature

9096 861  
Konopleva, G.S.: Some methodological issues of compiling subject indexes to the documents and resolutions of CPSU congresses. Orig. ru. Vopr.bibliografoved.i bibliotekoved., No 3, 1982. p.26-38, 14 refs.  
Examination of the methodology of the subject indexes preparation to CPSU Congresses and proposal that the publication of documents and resolutions of such Congresses should be accompanied by auxiliary subject indexes (alphabetical lists of subject indexes) and by references and see references providing multiaspect coverage of documents contents.

### 88 C & I in Subject Fields

9097 88-4  
Vleduts-Stokolov, N.: On automatic support to indexing a life sciences data base. Orig. en. Inform.Process.Managem. Vol 18, No 6 1982. p.313-321  
Description of a technique developed as automatic support to subject heading indexing at BIOSIS. The technique is based on the use of a formalized language for semantic representation of biological texts and subject headings - the language of Concept Primitives. The structure of the language is discussed as well as the structure of the Semantic Vocabulary, in which natural language words from biological texts are described by Concept Primitives. The Semantic Vocabulary is being constructed. Approximately 8,000 entries corresponding to high frequency significant words have been compiled, comprising at least three-quarters of the final number. Results of experiments checking the approach are given, and journal/subject heading and author/subject heading correlation data are analyzed to be used as a supporting technique.

9098 88-522  
Bishop, J.M.: The application of computer indexing to the operation of an NHS pharmacy-based regional drug information centre. Orig. en. London, GB: SE Thames Regional Drug Inform. Centre 1981. 150 p.

88-545 see also 9035

9099 88-731  
Moriguchi, J.: Indexing technical literature. Orig. ja. Dokumentasyon Kenkyu Vol 32, No 1, 1982. p.2-11  
In conducting studies on indexing one of the special themes concerned the following problem: "To what extent do the terms extracted from a text cover the content of sources such as chemical patents?" The effectiveness of specific terms and the importance of individual parts of a text were tested. In selecting terms it is recommended that classification schemes should be used. (Author)

9100 88-731  
Dood, K.J.: Engineers as information processors: patent classification in the US Patent and Trademark Office. Orig. en.

IEEE Prof. Commun. Soc. Conf. Rec. Commun. Gov. New York, NY, US 1981. p.22-24, 1 ref.

The US Patent and Trademark Office classifies patents for storage and retrieval according to its own classification system. Engineer classifiers within the Office are responsible for expanding or modifying the system. These classifiers analyse the inventions described in patents, group the patents according to the similarities of the inventions they describe, arrange the groups in hierarchical order, and finally, document the results for the benefit of the Office's patent collection. (Author, abbr.)

## 9 CLASSIFICATION ENVIRONMENT

### 92 Persons and Institutions

See also 8805, 8824-8835

9101 92  
Garfield, E.: In tribute to V.V. Nalimov: Renaissance scholar and scientometrician par excellence. Orig. en. Curr. Contents: Phys., Chem., Earth Sci. Vol 22, No 8, 1982. p.5-15, 9 refs. Homage is rendered to a Soviet scholar who has been interested and active in a wide range of fields such as mathematics, statistics, chemistry, scientometrics, linguistics, philosophy, a.o. A bibliography of his works is presented. Since 1933 he has published 12 books and 113 papers. According to searches of the Institute for Scientific Information in Philadelphia, there were 1912 references made to these publications in the years 1961-1980. ISI also published three of his books in English, namely "In the Labyrinths of Language", "Faces of Science" and "Realms of the Unconscious: The Enchanted Frontier".

9102 92  
Iswara, H.: A round-table talk on 30 years of the Japan Documentation Society - centering around the beginning age (2) I and UDC. Orig. Ja. Documentasyon Kenkyu Vol 32, No 2, 1982. p.99-100

9103 92  
Society of Indexers (Ed.): Indexers available 1982-1983. Orig. en. London, GB 1982. 24 p.

### 95 Education and Training

9104 958  
L'enseignement de la terminologie à l'Institut de traduction de Turku. (The teaching of terminology at the Translation Institut of Turku (Finland)) Orig. fr. Terminogramme, No 15, 1982. p.3-5

9105 952  
Anderson, J.D.: Education for indexing in North America: course content, emphasis, and approach. Orig. en. Indexer Vol 13, No 2, 1982. p.92-100  
Using earlier work described in The Indexer in April 1977, the author has greatly expanded his directory of American and Canadian courses on indexing. He has been able to discover and to classify no fewer than 160 'topics' related to indexing, and his analysis and correlation of these formed the basis of a questionnaire sent to sponsors of indexing courses. They were asked to say which of the topics were 'major' in their courses (5% or more), which 'minor', and which included learning by doing. The classification and the numerical answers relating to 42 courses constitute Table 1, the pièce de résistance of this article. Tables 2 and 3 compare the results with those of the earlier work mentioned. Table 4 compares the 'major' and 'minor' rankings of 20 topics in 1980 and 1976, and Table 5 presents a summary of 1980's 'major' and 'minor' topics by category. Finally Table 6 shows the 18 topics treated with 'hands-on' practice, with the numbers of courses for each and their rankings. Concise descriptions of the highly condensed tables are given as well as discussions on the salient features the chief of which is the application of computer technology. (Author, abbr.)

9106 958  
Duquet-Picard, D.: Enseignement de la terminologie au Québec et à Ottawa. (Terminology teaching at Quebec and Ottawa) Orig. fr. TermNet News, No 4/5, 1982. p.24-44, 29 refs.  
Description of teaching programs and research projects at various institutions in Canada.

9107 958  
Picht, H.: General plan for training in terminology as proposed by the participants of the Symposium on Terminology Training, Oslo, June 15-17, 1981. Orig. en. TermNet News, No 4/5, 1982. p.4-23

### 97 Economic Aspects

9108 97  
Childs, S.; Carmel, M.J.: Effect of online services on purchases of a printed index. Orig. en. Aslib Proc. Vol 33, 1981. p.351-356

### 98 User Studies

See also 8969

9109 985  
Andrian, A.C.: Libraries in the world and the classification systems used by them. Orig. en; ro. Probl. Inform. Doc. Vol 15, No 3, 1981. p.150-175, 12 refs. The use of classification systems in library in Europe, the USSR and the USA is discussed in terms of scope for application, merits and demerits. Particular attention is paid to various UDC editions. (Author, modif.)

9110 98  
Atanasiu, P.; Teodoru, V.: User options for certain information classification systems. Orig. en, ro. Probl. Inform. Doc. Vol 16, No 1, 1982. p.17-23, 10 refs. Results of an enquiry made among users of different types in Romania. The enquiry showed a preference for concept classification systems as against hierarchical ones.

### 99 Standardization

9111 99  
Hrenkova, A.A.: The first library terminology standard in the USSR. Orig. ru. Bibliotekar', No 10, 1981. p.61-62  
The standard (GOST 7.26.80) was to be operational on Jan. 1, 1982. Concepts are defined in a number of sections. One of these is concerned with Cataloguing and Library Catalogue and comprises 14 terms. The standard also gives the English, French and German equivalents of the corresponding Russian terms.

#### Note:

The following items refer to problems of standardization in general. As there are also standards in the fields of conceptology, terminology, lexicography, classification and indexing we thought to include these titles, especially since their topics have some bearing in our fields too.

9112 99  
Bauer, C.-O.: Grundlagen und Elemente der Normungsfähigkeit. (Foundations and elements of standardizability) Orig. de. DIN-Mitt. 61(1982)No 8, p.443-452, 2 figs.; 5 tabs., 38 refs.

9113 99  
Muschalla, R.: Überregelung - Sachzwang oder menschliches Versagen? Was ist unter "normungsfähig" zu verstehen? (Overrulability - enforcement or human failure?) Orig. de. DIN-Mitt. Vol 61, No 9, 1982. p.513-517  
Many measures of the DIN are introduced in order to hinder or to reduce too much of technical ruling. These are presented. The article concludes with a critical consideration of the concept 'standardizable'.

9114 99  
Beitz, W.: Was ist unter "normungsfähig" zu verstehen? Ein Standpunkt aus der Sicht der Konstruktionstechnik. (What is to be understood by "standardizable?") Orig. de. DIN-Mitt. Vol 61, No 9, 1982. p.518-522, 1 fig.; 4 tabs., 4 refs.

9115 99  
Wilke, D.: Rechtliche Grenzen der Normbarkeit. Was ist unter "normungsfähig" zu verstehen? (Legal barriers to standardizability) Orig. de. DIN-Mitt. Vol 61, No 9, 1982. p.523-525  
It is proposed to include into the concept of "standardizability" the characteristic of the 'object of standardization', in order that its standardization is in harmony with present law.

#### Language Symbols:

cs	Czech	it	Italian
da	Danish	ja	Japanese
de	German	pl	Polish
en	English	ro	Romanian
es	Spanish	ru	Russian
fr	French	sb+sk	Slovakian

# Personal Author Index

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