Divisions of 04, 5, 6, 78, 82, 88 acc. to Information Coding Classification (ICC) described and displayed in Int.Classif. 9(1982)2, p.87-93 and in Int.Classif.& Indexing Bibliogr. I.

A further division of this scheme (by one and sometimes two levels) was published in Int.Classif.12(1985)No.3, p.147-151

There are abstracts in our holdings to almost all of the references cited. We offer to send copies of these abstracts to anybody interested. Please write to the Editorial Office.

❽ FORM DIVISIONS

03 Dictionaries, Terminologies

3/4-001   036.75
Yakubajtis, E.A.(Ed.): <u>Architecture, protocols and testing of</u>
<u>open information networks: An explanatory dictionary of 600</u>
terms. Orig. en-ru. Moskva, SU: Fin.i stat. 1989. 191p.
    The dictionary contains over 600 terms used in the des-
cription and development of network architectures, protocols
and interfaces as well as methods and tools of control, secu-
rity and testing of information systems of various types.

3/4-002   036.757; 715
Herden, W.; Hein, H.-W.(Eds.): <u>Kurzlexikon Wissensbasierte Sy-</u>
<u>steme</u>. (Lexicon of knowledge-based systems) Orig.de-en. Mün-
chen,DE: Oldenbourg 1990. 96p., 54 refs., ISBN 3-486-21718-6
Gives short and longer explanations to some 55 terms and con-
cepts in systematic order.

3/4-003   038-68
Huber,R.; Rieth, R.(Eds.): <u>Glossarium Artis 7: Festungen. For-</u>
<u>teresses, Fortifications. Wörterbuch zur Kunst (de, fr, en).</u>
München, DE: K.G.Saur Verlag 1990. 406p.
The volume deals with the vocabulary of European military en-
gineering after the invention of gunpowder demonstrated in
relation to castles and fortresses. These are shown in pict-
ures with the vocabulary in three languages and a definition
in German.

3/4-004   038-824
Neuheuser, H.P.: Book review of <u>Walne, P.(Ed.): Dictionary of</u>
<u>archival terminology. Dictionnaire de terminologie archivi-</u>
<u>stique. (English and French with equivalents in Dutch, German,</u>
Italian, Russian, and Spanish. 2nd ed. München, etc. K.G.Saur
Verl.1988. 212 p.) Bibliothek. Forsch.& Praxis Vol 14, No 1,
1990. p.94-96

3/4-005   038-83
Mikhalevich, V.S. (Ed.): <u>A dictionary of cybernetics</u>. 2nd ed.
Orig.ru. Kiev, SU: Gl.red.Ukr.Sov.Entsiki. 1989. 751p.
Contains 2400 terms and the theory and practice of information
processing and management.

3/4-006   038-83
<u>Dictionary of computing</u>. Orig. ru, transl.from en.
Moskva, SU: Mashinostroenie 1989. 567p.
The handbook contains over 4000 terms used in computer techno-
logy, electronics, mathematics and logic. It was compiled by
more than 50 professionals from the US and the UK. (In Eng-
lish printed by Market House Books, Ltd.)

3/4-007   038-87
Frieling, W.-R.: <u>Wörterbuch der Verlagssprache</u>. (Dictionary of
publishers terminology) Orig.de. Berlin: Frieling 1989. 96p.

04 Classification Systems & Thesauri

041   General Classification Systems and Thesauri

3/4-008   041-de-63; -66
Deutsche Bibliothek; Bibliotheksverbund Bayern (Ed.): <u>Schlag-</u>
<u>wortnormdatei (SWD). Teilausgabe Recht und Verwaltung. Stand:</u>
<u>Okt.1989.</u> (Standard Subject File. Section on Law and Admini-
stration) Orig.de. Augsburg, DE: Arb.gem.f.jurist.Bibliotheks-
u.Dokumentationswesen, Universitätsbibliothek 1990. XVII,626p.

3/4-009   041
Atkins, Th.V.(Ed.); Ostrow, R.: <u>Cross-Reference Index. A guide</u>
<u>to search terms, 2nd ed.</u> Orig.en. New York, NY: Bowker 1989.
970p., ISBN 0-8352-1918-6
A total of 42,000 terms have been drawn from the following
sources: LCSH, Sears, Reader's Guide, NY Times Index, Public
Affairs Inform.Serv., ERIC Thesaurus, Psychological Index The-
saurus, and Subject Guide to the Information Access Databases.
The Index is selective and lacks cross-referencing.

042   Universal Decimal Classification

3/4-010   042.1-cs-43; -44
Ustredi Vedeckych Technickych a Ekonomickych Informaci: <u>Cze-</u>
<u>choslovak Full UDC Edition, Class 57: Biology. Class 58: Zool-</u>
<u>ogy.</u> Orig.sk. Nitra, CSFR: Ustredna podohospodarska kniznica
1989. 296p.

3/4-011   042.1-cs-63; -65; -16
Ustredi Vedeckych Technickych a Ekonomickych Informaci: <u>Cze-</u>
<u>choslovak Full UDC Edition, Class 35 Public Administration;</u>
<u>Class 36: Social Welfare; Class 389: Metrology.</u> Orig. cs.
Praha 1, CSFR: UVTEI (Konviktská 5) 1989. 203p.,
ISBN 80-212-0053-7

3/4-012   042.1-hu-33/36
Magyar Szabvanyugyi Hivatel: <u>Hungarian Full UDC Edition, Class</u>
<u>55: Geology, Geophysics, Seismology, Meteorology, Hydrology.</u>
Orig.hu. Budapest VIII, HU: Szabványboltban (Üllöi ut 24) 1989.
61p., FID 390

3/4-013   042.3-da
Dansk Central for Dokumentation. Danish UOC Committee: <u>Danish</u>
<u>Abridged UDC Edition. Class 62/621: Engineering Sciences, Me-</u>
<u>chanical and Electrical Engineering.</u> Orig.da. Lyngby, DK: Dan-
marks Tekniske Bibliotek 1990. 100p.

043   <u>Dewey Decimal Classification</u>

3/4-014   043.3
Comaromi, J.P.; Beall, J., Matthews, W.E.Jr., New, G.R.(Eds.):
<u>Abridged Dewey Decimal Classification and Relative Index, De-</u>
<u>vised by Melvil Dewey. Edition 12.</u> Orig.en. Albany, NY: Forest
Press OCLC 1990. XIII,857p., ISBN 0-910608-42-3
    Contains a survey on the new features of Abridged Ed.12,
an Introduction to the DOC, a Glossary and an Index to intro-
duction and glossary. There is also a Manual introducing into
the classing of the difference Tables and Schedula Classes, a
survey of the Policies and Procedures of the Library of Con-
gress Decimal Classif.Div., Relocations and Reductions, and a
comparative and an equivalence table for 780 Music. Thereafter
follow the tables, the Schedules and the Relative Index.

3/4-015   043.6-99
Comaromi,J.P. et al. (Eds.): <u>Dewey Decimal Classification: 200</u>
<u>Religion Class</u>. Reprinted from ed.20 of the Dewey Decimal Clas-
sification with a revised and expanded index and manual notes
from ed.20. Orig.en. Albany, NY: Forest Press 1989. 191p.

044   <u>Library of Congress Classification and</u>
      <u>Library of Congress Subject Headings</u>

3/4-016   044.6-667 DE
Runchock,R.; Droste,K. (Eds.): <u>Class K, Subclasses KK-KKC. Law</u>
<u>of Germany. Library of Congress Classification Schedules. Com-</u>
<u>bined with additions and changes through 1988.</u> Orig. en.
Detroit, MI: Gale Research Ind. 1989. ca 600 p.
A reprint of a document of 1982 prepared in the Subject Cata-
loging Div. of the Library of Congress by J.E.Goldberg.

3/4-017   044.6-667 FR
Runchock, R., Droste, K. (Eds.): <u>Class K. Subclasses KJV-KVW.</u>
<u>Law of France. Library of Congress Classification Schedules.</u>
<u>Combined with changes through 1988.</u> Orig. en.
Detroit, MI: Gale Research Inc. 1989. ca 300 p.
Created by J.E.Goldberg, based on a preliminary draft by
J.Wawrzkow.

3/4-018   044.6-668
Library of Congress. Subject Cataloging Oiv.: <u>Classification.</u>
<u>Class KJ-KKZ. Law of Europe</u>. Orig. en.
Washington, DC: Library of Congress 1989. XXXI,599 leaves
Prepared in the Subject Cataloging Div. by J.E.Goldberg.

3/4-019   0448-93
Barnhart,L.: Book review of <u>Bratcher,P., Smith,J.(Eds.): Music</u>
<u>subject headings: Compiled from Library of Congress Subject</u>
<u>Headings. Lake Crystal, MN: Soldier Creek Press 1988. 323p.</u>
Catalog.& Classif.Quart. Vol 11, No 2, 1990. p.115-117

047   <u>Library Bibliographical Classification (BBK/LBC)</u>

3/4-020   047.6-81; -56; -58; -85; -86; -82
<u>Bibliothekarisch-Bibliographische Klassifikation; BBK/A, Adap-</u>
<u>tierte Fassung; systematischer Teil, Bd.5.1.</u> (Library Biblio-
graphical Classification, adapted version, systematic part)
Orig.de. Berlin, DE: Method.Zentrum f.Wiss.Bibliotheken u.In-
formations- u. Dokumentationseinrichtungen 1989. 96p.
Vol.5.1 contains classes: 81 Culture, 82 Science of Science,
84 Sports, 85 Mass Media, Journalism, 86 Publishing, Book
Trade, 87 Book and Library Science, Information and Documenta-
tion, 88 Museums, Archives.

048.7   Patent Classification Systems

3/4-021   048.7
Deutsches Patentamt; Eidgenöss.Amt f.Geistiges Eigentum; Öster-
reichisches Patentamt: <u>Internationale Patentklassifikation. 5.</u>
<u>Aufl., Bde.1-9.</u> (International Patent Classification, 5th ed.,
valid from Jan.1, 1990, 9 vols.) Orig.de. Köln, DE: Heymanns
Verlag 1989. 1516p.
The nine volumes cover: Daily Supplies (141p.); Working proce-
dures (338p.); Chemistry, Metallurgy (263p.); Textiles, Paper
(67p.); Building, Mining (7Ip.); Mechanical Engg., Lights,
Heating, Weapons, Explosives (184p.); Physics (157p.); Electri-
cal Engg.(146p.); Introduction & Classification System (306p.)

3/4-022   048-56
Thesaurus of ERIC Descriptors, 12th Edition. Orig. en.
Phoenix, AZ: Oryx Press 1990. 640p. ISBN 0-89774-561-2
Covers over 9,500 terms in four descriptor displays.

3/4-023   048-627
Fachinformationsverbund Internationale Beziehungen: Thesaurus
Internationale Beziehungen und Länderkunde. (Thesaurus for in-
ternational relations, and countries) Orig.de. Ebenhausen, DE:
Stiftung Wissenschaft und Politik 1989. VIII,340p.,
ISBN 3-927674-00-1
Book review by C.Häfner in Nachr.Dok.41(1990)No.3, p.204

3/4-024   048-657
Deutsche Stiftung für Internationale Entwicklung (DSE): The-
saurus für wirtschaftliche und soziale Entwicklung. 1: Alpha-
betischer Teil, 2: Strukturierter Teil, 3: Register Teil. Eng-
lisch-Deutsch, Französisch-Deutsch, Spanisch-Deutsch. 12., rev.
Aufl. (Thesaurus for economic and social development, 12th
rev.ed.) Orig. en-de; fr-de; es-de. Bonn, DE: DSE, Zentrale
Dokumentation 1989. 274+46+144p., ISBN 3-924441-45-6
Covers 2,610 descriptors and 1,218 non-descriptors structured
(in Part 2) into 19 fields and 102 groups.

3/4-025   048-823
Gilchrist, A.: Book review of Peniston, S. (Comp.): Thesaurus
of Information Technology Terms. London: Taylor Graham 1989.
410 p. Orig.en. Program Vol 24, No 2, 1990. p.213-214

3/4-026   048-91
Schreiner, M. (techn.ed.): Fachsystematik und Einzelsprachen-
systematik der Bibliothek des Instituts für Allgemeine Sprach-
wissenschaft der Westfälischen Wilhelms-Universität Münster.
3. Aufl. (Subject classification and classification of lan-
guages of the Library of the Institut for General Linguistics,
University of Münster/W, 3rd. ed) Orig.de. Münster/W, DE: Bi-
bliothek des Inst.f.Allg.Sprachwiss., WWU 1989. 305p.

05 Periodicals and Serials

3/4-027   056.156
Habel, Ch.; Kanngießer,S., Strube,G. (Eds.): Kognitionswissen-
schaft, Band 1, Heft 1, 1990. (Cognition Science, Vol.1, No.1,
1990) Orig.de. Heidelberg, DE: Springer Verl. 1990. 46p.
According to the Editorial, Cognition Science is understood to
supply theoretical and methodological basic assumptions for
research into natural and computerized cognition. The editors
hold that cognition takes place in processes of information
handling, resulting in the fact that cognitive processes are
identical with computing processes. To do cognition science
means therefore, to consider mental achievements and their
processes from the point of view of information processing and
to understand them as computing processes or their results.
The first number contains the following articles: Wender, K.F.
Wagener, M.: Zur Verarbeitung räumlicher Informationen: Model-
le und Experimente. - Kaufmann, I.: Semantische und konzeptu-
elle Aspekte der Weg-Präposition "durch". - Brewka, G.: Bevor-
zugte Teiltheorien: Wissensrevision in einem Ansatz zum De-
fault-Schließen. - Mohnhaupt, M., Rehkämper, K.: Gedanken zu
einer neuen Theorie der Kognition. Das Buch von T.Winograd(
F.Flores: Erkenntnis - Maschinen - Verstehen. Zur Neugestal-
tung von Computersystemen.

06 Conference Reports, Proceedings

3/4-028   06.86-10-22/24; 751
Zunde,P.; Agrawal,J.C. (Eds.): Empirical Foundations of Infor-
mation and Software Science IV: Empirical Methods of Evalua-
tion of Man-Machine Interfaces: Proc.4th Symposium, Atlanta,GA
Oct.22-24, 1986. New York-London: Plenum Press 1987. X,533p.,
ISBN 0-306-42817-2
The papers cover: User-system interfaces: Key issues; - Anal-
ysis; - Evaluation; User-system interaction; Information sys-
tem design and development; Software engineering; Software and
system performance evaluation; Software transition tools and
techniques; Information, knowledge, and value.

3/4-029   06.88-04-8/9; 756
Speller, B.F.,Jr. (Ed.): Classification as an enhancement of
intellectual access to information in an online environment.
Cat.& Classif.Quart. Vol 11, No 1, 1990, p.1-102
The issue contains the papers presented as part of the 2nd
Annette Lewis Phinazee Symposium, School of Library and in-
formation Sciences, North Carolina Central University, April
8-9, 1988, Durham, N.C. The ten papers are arrange in 5 parts:
Speller, B.F.Jr.: Access to Information in an Online Environ-
ment: Editor's Introduction. - 3/4-030 Chan, L.M.: The Library
of Congress Classification System in an online environment. -
3/4-031 Saye,J.D.: "The Library of Congress Classification
System" in an online environment" A reaction. - 3/4-032 High,
W.M.: Library of Congress Classification Numbers as subject

access points in computer-based retrieval. - 3/4-033 McAllis-
ter-Harper, D.: Dewey Decimal Classification in the online
environment: A study of libraries in North Carolina. - 3/4-034
Hill, J.S.: Things are taking a little longer than that: A re-
sponse to Dewey Decimal Classification in the online environ-
ment. - 3/4-035 Bland,R.N.: Toward the catalog as a tutorial
guide to the literature. - 3/4-036 Summerville,L.: Cataloging,
classification, and pedagogy: Toward the catalog as a guide to
the literature: reaction. - 3/4-037 Wilkinson,C.L.: Intellec-
tual level as a search enhancement in the online environment:
Summation and implications. - 3/4-038 Comaromi,J.P.: Summation
of Classification as an Enhancement of Intellectual Access to
Information in an Online Environment.

3/4-039   06.88-05-13
Book reviews of Weinberg, B.H.: Indexing: The State of Our
Knowledge and the State of Our Ignorance. Proceedings of the
20th Annual Meeting of the American Society of Indexers, New
York City, 13 May 1988. Medford, NJ: Learned Information 1989.
134p.
by V.J.Nurcombe, in Library Review Vol 39, No 1, 1990. p.52
by D.Dunn, in Spec.Libraries 18(1990)No.1, p.85-86
by E.B.Christianson, in Libr.Quart. 60(1990)No.1, p.85-86

3/4-040   06.88-06-13/15
Chiaramella,Y.(Ed.): 11th International Conference on Research
and Development in Information Retrieval, Grenoble, June 13-15
1988. Grenoble, FR: Presses Université 1988. 680p.,
ISBN 2-7061-0309-4
The papers have been arranged under the following headings:
Special session, SIGIR Award, Natural language processing,
Cognitive models, Parallel distributed process, applications,
Quantitative models, Thesaural models, Interface, Data bases,
Logical models, Artificial intelligence, Set oriented models,
Implementation techniques.
3/4-041 Sparck Jones, K.: A look back and a look forward. -
3/4-042 Smeaton, A.F.; Rijsbergen, C.J.van: Experience on in-
corporating syntactic processing of user queries into a docu-
ment retrieval strategy. - 3/4-043 Bonzi, S.; Liddy, E.: The
use of anaphoric resolution for document description in infor-
mation retrieval. - 3/4-044 Antoniadis, G.; Lallich-Boidin G.,
Polity, Y., Rouault, J.: A French text recognition model for
information retrieval systems. - 3/4-045 Jacobs, P.S.; Rau, L.
F.: Natural language techniques for intelligent information
retrieval. - 3/4-046 Pevzner, B.: Precedental data bases: how
and why they are worked out and used. - 3/4-047 Case, D.O.:
How do the experts do it? The use of ethnographic methods as
an aid to understanding the cognitive processing and retrieval
of large bodies of text. - 3/4-048 Belkin, N.J.: On the nature
and function of explanation in intelligent information re-
trieval. - 3/4-049 Salton, G.; Buckley, Ch.: On the use of
spreading activation methods in automatic information retriev-
al. - 3/4-050 Brachman,R.J.; McGuinness,D.L.: Knowledge repre-
sentation, connectionism, and conceptual retrieval. - 3/4-051
Yu, C.T.; Mizuno, H.: Two learning schemes in information re-
trieval. - 3/4-052 Wong, S.K.M.; Yao, Y.Y., Bollmann, P.: Li-
near structure in information retrieval. - 3/4-053 Hirabayashi,
F.; Matoba, H., Kasahara Y.: Information retrieval using im-
pression of documents as a clue. - 3/4-054 Fuhr, N.; Hüther,
H.: Optimum probability estimation based on expectations. -
3/4-055 Crouch, C.J.: A cluster-based approach to thesaurus
construction. - 3/4-056 Harman, O.: Towards interactive query
expansion. 3/4-057 Biebricher,P.; Fuhr,N., Lustig,G., Schwant-
ner, M., Knorz, G.: The automatic indexing system AIR/PHYS. -
3/4-058 Kok, A.J.; Rolman, A.M.: Retrieval based on user be-
haviour. - 3/4-059 Simpson, P.: Query processing in a hetero-
geneous retrieval network. - 3/4-060 Brajnik, G.; Guida, G.,
Tasso, C.: IR-NLI II: Applying man-machine interaction and ar-
tificial intelligence concepts to information retrieval. -
3/4-061 Tague, J.; Schultz, R.: Some measures and procedures
for evaluation of the user interface in an information re-
trieval system. - 3/4-062 Teskey, F.N.: Intelligent support
for interface systems. - 3/4-063 Ganzalez-Rubio, R.; Couprie,
M.: A parallel multiprocessor machine dedicated to relational
and deductive databases. - 3/4-064 Bosc, P.; Gailbourg, M.:
Flexible selection among objects: a framework based on fuzzy
sets. - 3/4-065 Damier, Ch.; Defude, 8.: The document manage-
ment component of a multimedia data model. - 3/4-066 Furnas,
G.W.; Deerwester,S., Dumais,S.T., Landauer,T.K., Hashman,R.A.,
Streeter, L.A., Lochbaum, K.E.: Information retrieval using a
singular value decomposition model of latent semantic struc-
ture. - 3/4-067 Croft,W.B.; Lucia, T.J., Cohen, P.R.: Retriev-
ing documents by plausible inference: A preliminary study. -
3/4-068 Nie, J.: An outline of a general model for information
retrieval systems. - 3/4-069 Schäuble, P.: An information
structure dealing with term dependence and polysemy. - 3/4-070
Barthes,Ch.; Glize,P.: Planning in an expert system for autom-
ated information retrieval. - 3/4-071 Zarri, G.P.: Conceptual
representation for knowledge bases and "intelligent" informa-
tion retrieval systems. - 3/4-072 Das-Gupta, P.: Rough sets
and information retrieval. - 3/4-073 Bookstein,A.: Set orient-
ed retrieval. - 3/4-074 Choueka, Y.; Fraenkel, A.S., Klein,
Sh.T.: Compression of concordances in full-text retrieval sys-
tems. - 3/4-075 Jimenez, G.C.: Access by content of documents
in an office information system.

3/4-076   06.B9-03-13/17; 771
International Conference on Terminology Standardization and
Unification. Int.Inform.Communic.Educ. Vol 8, No 2, 1989.
p.222-223

3/4-077   06.89-06-26
Marcado, E.M.: The RTSD Cataloging and Classification Section.
ACRL, and PLA co-sponsored a program "Subject Analysis Tools
Online - the challenge ahead", June 26, 1989. Orig. en.
Cat.& Classif.Quart. Vol 11, No 2, 1990. p.147-148
Short report on this meeting which was chaired by Sheila S.
Intner and which took place during the Annual Convention of
the American Library Association at Dallas. The following 4
speakers and their papers: 3/4-077a Chan, L.M.: Importance
and uses of classification schedules online. - 3/4-077b Paul-
son, P.: Dewey Decimal Classification online. - 3/4-077c Wil-
liamson, N.: LIbrary of Congress Classification online. -
3/4-077d Garrison, W.: LCSH/LC name authorities online. -
A concluding panel discussion treated the future needs and
uses of online subject tools in local systems, moderated by
Michael Gorman.

3/4-078   06.89-10-3/5; 124
Ladenko,I.S. (Ed.): Forms of knowledge representation and cre-
ative thinking. Synopeses of papers and communications for the
All-Union Seminar, 3-5 Oct.1989. Pt.2: Knowledge representa-
tion in specific subject domains. Orig. ru.
Novosibirsk, SU 1989. 222p.

3/4-079   06.89-10-3/5; 771
Current problems of terminology: Synopses of reports presented
at a scientific methodological conference, 3-5 Oct.1989.
Orig. ru. Vladivostok, SU 1989. 110p.

3/4-080   06.89-10-5/6
Stephan, W. (Ed.): Die Schlagwortnormdatei, Entwicklungsstand
und Nutzungsmöglichkeiten: Vorträge eines Kolloquiums zur
Schlagwortnormdatei (SWD) in Frankfurt a.M., 5.u.6.Okt.1989.
(The Standard Subject File, its state of development and pos-
sibilities of utilization. Papers of a Colloquy, Frankfurt,
5-6 Oct.1989) Orig.de. Berlin, DE: Deutsches Bibliotheksinsti-
tut 1990. 179p., ISBN 3-87068-890-4, OBI Materialien 90.
All of the following 17 papers are in the German language.
3/4-081 Kelm, B.: Die SWD als Arbeitsinstrument für die Sach-
erschließung der Deutschen Bibliothek und die CD-ROM-Ausgabe
der Deutschen Bibliographie als Beispiel für einen OPAC mit
RSWK-Ketten. - 3/4-082 Gödert, W.: Aufbereitung und Recherche
von nach RSWK gebildeten Daten in der CD-ROM Ausgabe der Deut-
schen Bibliographie. - 3/4-083 Stephan, W.: Kooperative Datei-
führung und redaktionelle Aufgaben der Deutschen Bibliothek.
3/4-084 Geißelmann, F.: Aus der Arbeit der zentralen Redaktion
des bayerischen Verbundes für die SWD. - 3/4-085 Schubert, H.-
J.: Aus der Arbeit der zentralen Redaktion München des bayeri-
schen Verbundes für die SWD. - 3/4-086 Traiser,W.: Derzeitiger
Stand der SWD-Systematisierung und erste Überlegungen zu ihrer
Weiterentwicklung. - 3/4-087 Loth, K.: Strukturierung der
Schlagwörter der Schlagwortnormdatei. - 3/4-088 Rinn, R.: Be-
ziehungen der SWD zu anderen Normdateien. - 3/4-089 Auer, G.:
EDV-Einsatz und Sacherschließung an den österreichischen wis-
senschaftlichen Bibliotheken. - 3/4-090 Höhne, H.: Überlegun-
gen über eine mögliche Anwendung der RSWK sowie Mitwirkung an
der SWD seitens der Deutschen Bücherei. - 3/4-091 Beaujean,M.:
Nutzung der DB-Dienstleistungen bei den Stadtbüchereien Hanno-
ver. - 3/4-092 Galsterer, 8.: Stadtbüchereien Düsseldorf und
Großstadtbibliotheken in NRW. - 3/4-093 Nowak, C.G.: Nutzung
der SWD und der RSWK-Ketten durch BASIS in der Stadtbücherei
Bochum (AKD). - 3/4-094 Brake-Gerlach, U.: Bibliotheks- und
Informationssystem Oldenburg. - 3/4-095 Schwan-Michels, R.:
Gemeinsame Schlagwortkatalogisierung nach RSWK im HBZ-Verbund.
3/4-096 Schmidt, G.: Zur Nutzung an Schlagwortnormdatei (SWD)
an der UB Kaiserslautern. - 3/4-097 Dugall, B.: Situationsbe-
richt betreffend Einsatz von RSWK und SWD im Hessischen Bib-
liotheksinformationssystem HEBIS-KAT. -

3/4-098   06.89-11-5/8; 356
Kuhlen, R.: Zweite ACM-Hypertext Konferenz November 1989 in
Pittsburgh (USA). "Knowledge is becoming hypertextified".
Orig.de. Nachr.Dok. Vol 41, No 1, 1990. p.33-45
Report on this 2nd Hypertext Conference of the Association for
Computing Machinery in Pittsburgh, 5-8 Nov.19B9 with an intro-
duction into this field of interest in information science,
infonatics, writing, linguistics, psychology, etc. It out-
lines also the factors of success and gives short descriptions
of a number of panel discussions, such as "Interchanging hy-
pertexts", "Indexing and hypertext", "Expert systems and hy-
pertext", "Cognitive aspects of Designing hypertext systems".

3/4-099   06.89-11-22/23; 77.213
Proceedings of the International Symposium "Terminology in Ad-
vanced Microcomputer Applications", Vienna, 22-23 November
1989. Orig.en. TermNet News, No 26, 1989. 45 p.
The issue containes an opening speech by Pierre Lerat and the
following papers with a list of participants at the issue end:
3/4-100 Melby, A.: Terminology - an indispensable tool for in-
formation manangement. - 3/4-101 Schaar,M.: Terminology docu-

mentation - an information management tool for both public- and
private-sector organizations. - 3/4-102 Hinz, H.; Nistrup Mad-
sen, B.; Engel, G.: OANTERM/ORACLE application. The DANTERM
Group. - 3/4-103 Vollnhals, O.: TERM-PC - the terminology sy-
stem. - 3/4-104 Kanemore, K.; Oshikawa, Y., Nakahara, S.: CJE
MULTIBUILD. A linguistic data processing system for English
and Oriental languages. - 3/4-105 Westerberg, K.: Why term
banks on CD-ROM? - 3/4-106 Henning, J.-M.: MicroCézeau IV. -
3/4-107 Del Bigio, G.: CDS/ISIS. Computerized Documentation
System/Integrated Set of Information Systems. - 3/4-108 Stoll,
C.-H.: Terminology work on PC. -

3/4-109   06.89-12-18/21
Effektivitätsfaktor Information. 16.Kolloquium über Informa-
tion und Dokumentation vom 18.-21.Dez.1989. (Effectiveness
factor information, 16th Colloquy on Information and Documen-
tation, 18-21 Dec.1989) Orig.de. Ilmenau: Inst.f.Inform.wiss.,
Erfindungswes.u.Recht d.TH Ilmenau 1990, Schriftenreihe d.INER
H. 77 u.78
Issue No.77 contains the 18 papers of topical area 1 on which
a report had been published in Int.Classif.90-1, p.28-29 by E.
Mater. All the 18 papers are in German. Issue No.78 conatins
the 21 papers of topical area 2 on "Complex information sup-
ply", of which only 3 papers have some bearing on our field
and which have been added at the end of the following list.
3/4-110 Bonitz, M.: Wissen - Information - Informatik. -
3/4-111 Weber, F.: Referatestruktur als Grundmuster der Infor-
mationsverdichtung. - 3/4-112 Dietze, J.: Oer semantische Ab-
stand in einem Wortfeld als Grundlage der Wissensrepräsenta-
tion. - 3/4-113 Mater,E.: Ziele und Methoden automatischer In-
haltserschließung. - 3/4-114 Scheller, B.: Wissensstrukturen
auf Grundlage von Fakten-Informationssystemen. - 3/4-115
Poetzsch, E.: Tendenzen der Entwicklung und Nutzung faktogra-
phischer Datenbanken - dargestellt an Beispielen aus der Bio-
technologie. - 3/4-116 Günther, L.: Aufbau und Nutzung eines
datenbankgestützten faktografischen Information'ssystems für
Baustoffe/Bauelemente - FADABA. - 3/4-117 Laluško, N.S.; Bon-
dar, V.V.: Aufbauprinzipien für die faktographische Datenbasis
"Technologien chemischer Produktionsprozesse". - 3/4-118 Letz,
B.: Transformierung von faktografischen Daten in eine Wissens-
basis für Nuclear Data. - 3/4-119 Schmidt, L.: Bauelemente -
Datenspeicher als Basis eines CAD/CAM-Systems. - 3/4-120 Gasch,
U.: Zum Problem der Wissensrepräsentation und Inferenzoptimie-
rung im Expertensystem - Entwicklungsumgebungen. - 3/4-121
Killenberg, H.: Entwurf wissensverarbeitender Systeme. -
3/4-122 Závada, J.: Von faktographischen Informationssystemen
zu Expertensystemen. - 3/4-123 Sejful-Mulukov, R.R.: Wissens-
umformung bei der Entwicklung geologischer Expertensysteme. -
3/4-124 Schüler, W.; Bocklisch, St.: Ein Lernalgorithmus zum
Anlernen und Aktualisieren von Wissensbasen in Expertensyste-
men. - 3/4-125 Mähl, A.: Lernalgorithmen zur automatischen Re-
levanzbewertung von Referaten. - 3/4-126 Jarosch, H.; Müller,
H.-D.: Flexible Steuerungsübergabe in rechnergestützten Infor-
mationstechnologien. - 3/4-127 Meyer, H.: Die Modellmethode -
erkenntnistheoretisches Instrument auf dem Wege zur künstli-
chen Intelligenz. - 3/4-128 Markscheffel, B.: Konzeption einer
flexiblen Anfragesprache für ein wissensbasiertes Ingenieur-
Informationssystem. - 3/4-129 Anan'eva, T.N.: Einige theoreti-
sche Fragen der Ausarbeitung sprachlicher Mittel für automati-
sierte Informationssysteme. - 3/4-130 Osokina, N.: Orientie-
rung der Informationssysteme auf das Informationsprofil.

3/4-131   06.90-05-21/25; 42.6-6
Arntz, H.: 54.Tagung von FID/C3 (CRC 1), Budapest, 21.-25.Mai
1990. (54th Meeting of FID/C3 (Social Sciences)) Orig. de.
DGD-Mitt. Vol 1, No 2, 1990. p.6-7
In order to finalize a number of revisions the committee de-
cided to work until Dec.1991 which even more vigor, regarding
the fact that the UDC still plays an important role in the
East-European countries. Present projects are described.

3/4-132   06.90-08-14/17
Fugmann,R. (Ed.): Tools for Knowledge Organization and the Hu-
man Interface. Proc.1st ISKO Conference, Darmstadt, 14-17 Aug.
1990. Vol.1. Orig.en. Frankfurt/Main: INDEKS Verlag 1990.
280p., Advances in Knowledge Organization, Vol.1.
ISBN 3-88672-020-9
Vol.1 (of 2 vols) contains the first part of the 60 papers
presented at the said conference and includes also the ab-
stracts of the papers to be found in Vol.2. The volume starts
with the plenary session papers; the workshop papers are ar-
ranged according to the program. Workshop topics include: Ge-
neral issues, Algorithmic text analysis, Terminology, Knowl-
edge organization by universal and by speical systems, Thesau-
rus issues, Online retrieval, Hypermedia, Retrieval technolo-
gies, and Indexing.
3/4-133 Vickery,B.C.: Classificatory principles in intelligent
interfaces. - 3/4-134 Hjerppe,R.: A framework for characteriz-
ing systems for knowledge organization: a first basis for com-
parisons and evaluation. - 3/4-135 Drabenstott, K.M.: Experi-
ences with online catalogs in the USA using a classification
system as a subject searching tool. - 3/4-136 Albrechtsen, H.:
Software concepts: Knowledge organization and the human inter-
face. - 3/4-137 Fugmann, R.: Ununsed opportunities in indexing
and classification. - 3/4-138 Deffner, R.; Geiger, H.: Associ-

ative word recognition with connectionist architectures. - 3/4-139 Ruge, G.; Schwarz, Ch.: Linguistically based term associations. A new semantic component for a hyperterm system. - 3/4-140 Mustafa Elhadi, W.: The contribution of terminology to the theoretical conception of classificatory languages and thesaurus indexation. - 3/4-141 Guang-Wei, W.: Survey of term equivalence between English and German, Japanese and Chinese. 3/4-142 Sukiasjan,E.: Description and analysis of the Library-Bibliographical Classification (BBK/LBC). - 3/4-143 Bies, W.: Die Rezeption von Regelwerken zur Sacherschließung: Das Beispiel RSWK. (Reception of subject cataloguing codes: the example of the RSWK - Rules for Subject Cataloguing). - 3/4-144 Raj, P.: Position and organization of the subject content of anaesthesiology in different library classification systems. 3/4-145 Craven, T.: Automatic structure modification in the graphic display of thesauri. - 3/4-146 Eisner, M.: New thesaurus qualities of ARBOR. - 3/4-147 Vasiljev, A.: Enhancement of the subject access vocabulary in an online catalogue. - 3/4-148 Vischer, J.: Das Harmonisierte System zur Bezeichnung und Codierung der Waren des internationalen Handels. (The Harmonized System for the naming and encoding of international trade commodities). - 3/4-149 Lesch, A.; Szabo, P.: Hypermedia approaches. - 3/4-150 Björklund,L.: HYPERCLASS. Four hypertext applications of a classification scheme. - 3/4-151 Björklund, L.: Problems of knowledge organization in an archival environment - KAM. - 3/4-152 Hjerppe, R.: The role of classification in Hypertext. Issues in implementing Roget's thesaurus as a hypertext. - 374-153 Hug, H.; Walser, M.: Retrieval in the ETH database using the UDC. - 3/4-154 Vickery, A.: Knowledge organization in an intelligent tutoring system. - 3/4-155 Schopen, M.: Cross file searching of biomedical databases at DIMDI. 3/4-156 Prasher, R.G.: Index and indexing. - 3/4-157 Parameswaran, M.: Chain procedure and Dewey Decimal Classification. - 3/4-158 Iivonen, M.: The impact of the indexing environment on interindexer consistency. - 3/4-159 Molholt, P.: Standardizing and codifying related term links for improved information retrieval.

3/4-160   06.90-10-2/4
Czap, H.; Nedobity, W. (Eds.): TKE'90: Terminology and Knowledge Engineering. Vols.1&2. Proceedings 2nd International Congress of Terminology and Knowledge Engineering. Applications, 2-4 Oct.1990, University of Trier, FRG. Orig. en. Frankfurt/ Main: INDEKS Verl.1990. VIII,682p. ISBN 3-88672-204-X, -205-8 The volumes cover only those papers that had been available early enough for printing before the conference. Some more papers were presented and will be published elsewhere. On the other hand, not all of the authors of which the papers are listed in the following could afford to participate.
3/4-161 Dzhincharadze, A.: The role of terminology in creating knowledge data bases. - 3/4-162 Tjoa, A.M.; Wagner, R.: Basic conceptual elements of knowledge based systems. - 3/4-163 Rauch, W.: Information science in an information society. - 3/4-164 Melby, A.: Terminology and technical documents: the importance and limitation of formal systems. - 3/4-165 Miike, S.; Amano,S., Uchida,H., Yokoi,T.: The structure and function of the EDR concept dictionary. - 3/4-166 Schaar, M.: Multilingual information and knowledge management. - 3/4-167 Engel,G., Picht, H.: New professional profiles in knowledge engineering and knowledge transfer. - 3/4-168 Haas,J.: Treatment of uncertainty in social-science expert systems. - 3/4-169 Budin, G.: Scientific knowledge structures. - 3/4-170 Nizhny, S.V.; Stochik, A.M.: Some clear and unclear questions on searching interrelationships between encyclopedics and knowledge engineering. - 3/4-171 Averbukh,K.J.: Term as a subject of study and a tool for knowledge fixation and knowledge transfer. - 3/4-172 Sörensen, B.: "Level structuring" of knowledge and its application to an expert system domain with a particular view to the perspectives for terminology work in general. - 3/4-173 Selov, S.D.: Terms, termability and knowledge. - 3/4-174 Citkina, F. A.: Comparative terminology theory: problems, goals, methods, applications. - 3/4-175 Gorodetsky, B.Y.: Cognitive aspects of terminological phenomena. - 3/4-176 Grinev, S.V.: Terminology and knowledge theory. - 3/4-177 Peschl,M.F.: Some critical reflections on symbolic knowledge representation. - 3/4-178 Petrova,T.A.: Gnostic aspects of the term. - 3/4-179 Gurevitch, B.L.: The descriptive approach to visual knowledge representation and visual processing. - 3/4-180 Bakarsic, K.: Science citation index for the field of archeology: hermeneutical and informatics aspects of SCI based systems of regional basis.
3/4-181 Benn, W.: Modelling multiple paradigm support in a KBMS. - 3/4-182 Fujiwara, R.: Intelligent design of control systems combining knowledge-based systems with conventional design methods. - 3/4-183 Linster, M.; Gaines, B.: Supporting acquisition and interpretation of knowledge in a hypermedia environment. - 3/4-184 Skuce,D.; Meyer, L.: Computer-assisted conceptual analysis: an essential component of a terminologist's workstation. - 3/4-185 Niggemann, J.: Representation of neuroanatomical knowledge: description language ADL. - 3/4-186 Otman, G.: Semantic networks in terminology: the case of AI. 3/4-187 Wallmannsberger, J.: Hypertext approaches to terminological information processing. - 3/4-188 Endres-Niggemeyer,B.: A procedural model of abstracting, and some ideas for its implementation. - 3/4-189 Defrise, Ch.; Nirenburg,S.: A language for representing text meaning. - 3/4-190 Bulot, T.: Dialogue generator and optimization of Minitel consultation. - 3/4-191 Klose,G.; Luck,K.v.: The representation of knowledge in LILOG. 3/4-192 Tarnowski, M.: Text-understanding - extracting knowledge from written texts. - 3/4-193 Gerlach, M.: Terminological reasoning in the natural language consultation system WISBER. 3/4-194 Möller, J.-U.: How to communicate expert knowledge. 3/4-195 Sörensen, H.S.: The use of knowledge-based frames for terms in EUROTRA. - 3/4-196 Serbryakova, I.N.: Non-neutral lexical units in scientific texts and the problem of their human and machine-assisted human translation. - 3/4-197 Schiller,A.; Steffens, P.: A two-level environment for morphological descriptions and its application to problems of German inflectional morphology. - 3/4-198 Ueda, Y.; Ahlén, S., Kogure, K.: Declarative control of generation using typed feature structure. 3/4-199 Buchan,R.L.: Retrospective indexing (RI) - A computer-aided indexing technique. - 3/4-200 Genuardi, M.T.: Knowledge-based machine indexing from natural language text: knowledge base design, development and maintenance. - 3/4-201 Mars, N.J. I.; Van der Vet, P.E.: A semi-automatically generated knowledge base for direct answers to user questions. - 3/4-202 Lutes-Schaab, B.: An online thesaurus for fact retrieval. - 3/4-203 Rogozhnikova, T.: Individual information thesaurus: associative fields and a model of semantic development. - 3/4-204 Sare, F.; Güntzer, U., Mittermeier, J., Jüttner, G.: An analysis of drug interactions using descriptions in system TEGEN with regard to learning behaviour and user acceptance. - 3/4-205 Suneeti, R.: Thesaurus in law: some problems of construction. - 3/4-206 Seetharama, S.: Towards establishing concordance among medical classification systems. - 3/4-207 Velho-Lopes, R.: Automated access to multilingual information. - 3/4-208 Beliaeva,L.; Piotrowski, R., Sokolova, S.: Principles of linguistic automata and their information bases design. - 3/4-209 Maes, J.-M.: The intelligent dictionary project. - 3/4-210 Mayer,R.; Geer,D., Hahne,K.-H.: On how to bring Hypertext to termbanks. - 3/4-211 Bouillon, P.; Tovena, L.: Word formation and computational dictionaries. - 3/4-212 Kim Deok-Bon; Hyun-Jae Im, Chio, K., Kim, G.: KOCP: an extended DCP for Korean and English. - 3/4-213 Lemnitzer, L.: A conceptual schema for a multifunctional lexical database: a proposal.- 3/4-214 Merlo, J.C.; Zitzer, deS.: Terminological electronic dictionaries as tools for access to knowledge. - 3/4-215 Polikarpov, A.A.; Kolodyazhnaya, L.: A system for compilation and analysis of electronic philological dictionaries using a personal computer. - 3/4-216 Ray, J.; Nadkarni, M.: Electronic dictionaries - an Indian experience. - 3/4-217 Tanaka, Y.; Yoshida, S.: Preparation of a concept dictionary. - 3/4-218 Czap, H.: Construction and representation of concepts in enterprises. 3/4-219 Shacklett, M.E.: Integrating information systems into corporate strategic planning and plan execution. - 3/4-220 Bertrand-Gastaldy, H.; Paquin, L.C., Dupuy, L.: The need for information and knowledge management. - 3/4-221 Eisele, H.: Les frustations du terminologue. - 3/4-222 Heid, U.; Freiboth, G.: Terminological and lexical knowledge for computer-aided translation and technical writing. - 3/4-223 Hein,R.G.: Hypertext: indispensable information systems for communicators. - 3/4-224 Luckhardt,H.-O.: Automatic terminology support in computer-aided and machine translation. - 3/4-225 Shreve, G.M.: Requirements analysis, empirical research and prototyping in the software engineering of workstations for computer-assisted translation. - 3/4-226 Wright, S.-W.; Larson, C.: Building the universal engine: implementation of transplatform MTX. - 3/4-227 Scherf, W.G.: Computer-assisted translation, the workstation and the translator. - 3/4-228 Diamessis, S.E.: Ongoing efforts in Greece. - 3/4-229 Sirayeva,S.: Compound term engineering. - 3/4-230 Dilger,W.: Transfering knowledge bases among hybrid knowledge representation systems. - 3/4-231 Kukulska-Hulme, A.: Speed understanding of an unfamiliar domain. - 3/4-232 Osadtschuk, M.: Utilization of semantic frames in studying and teaching terminology. - 3/4-233 Dieguez, M.I.; Burdach,A.M., Cabrera,P.I., Garbarini,B.C.G., Hörmann,V.P., Lazo, R.: A terminological microbank for Chile and Latin America. - 3/4-234 Galinski, Ch.: Knowledge transfer to/from countries with languages using non-European scripts. - 3/4-235 Gaudin, F.: Socioterminology and expert discourses. - 3/4-236 Guespin, L.: Socioterminology facing problems in standardization. - 3/4-237 Hosbayar, Che; Hasbagan: A study on Mongolian terminology for physical concepts. - 3/4-238 Nedobity, W.: Methodological and practical aspects of computer-assisted knowledge transfer to developing countries. - 3/4-239 Sans, J.: EOQL: Glossary of terms used in the management of quality. - 3/4-240 Su, Wubin: China National Technical Committee on Terminology for Standardization (CNTCTS). -

07 Textbooks

3/4-241   07.32
Langridge, D.W.: Subject analysis: principles and procedures. London, GB: Bowker-Saur 1989. VI,146p., ISBN 0-408-03031-3
3/4-242   07.32
Foskett, D.J.: Book review of 3/4-241.
In: J.Doc. Vol 46, No 1, 1990. p.59-61
3/4-243   07.32
Hannabuss, St.: Book review of 3/4-241.
In: Library Rev. Vol 39, No 1, 1990. p.53

08 Other Monographs

3/4-244   08.1
Pao, Miranda Lee: Concepts of information retrieval. Englewood, CO: Libraries Unlimited 1989. XVI+285p., ISBN 0-87287-405-2

3/4-245   08.1
Soergel, D.: Book review of 3/4-244.
In: Library Quarterly Vol 60, No 1, 1990. p.83-84

1 THEORETICAL FOUNDATIONS

115 General Order of Objects, Actions, etc.
    See 3/4-072

3/4-246   119; 167
Davies, R.: The creation of new knowledge by information retrieval and classification. Orig.en. J.Doc. Vol 45, No 4, 1989 p.273-301, 90 refs.
The paper reviews previous work on producing knowledge by information retrieval or classification and describes techniques by which hidden knowledge may be retrieved, e.g. serendipity in browsing, use of appropriate search strategies and, possibly in the future, methods based on Farradane's relational indexing or artificial intelligence.

12 Conceptology in Classification

    See also 3/4-110, -162, -176

3/4-247   122.173
Shaw, M.L.G.; Gaines, B.R.: Comparing conceptual structures. Consensus, conflict, correspondence and contrast. Orig. en. Knowledge Acquisition Vol 1, No 4, 1989. 341-363, 21 refs.
The paper outlines a methodology for eliciting and recognizing the individual differences in the use of terms by different authors. This can be used to focus discussion between experts on those differences between them which require resolution, enabling them to classify them in terms of differing terminologies, levels of abstraction, disagreements, and so on. The methodology promotes the full exploration of the conceptual framework of a domain of expertise by encouraging experts to operate in a "brain-storming" mode as a group, using differing viewpoints to develop a rich framework.   (Author, abbr.)

123 Concept construction
    See also 3/4-263, -451

3/4-248   123; 154
Vojshvillo,E.K.: Concept as a form of thought: Logico-epistemological analyses. Orig.ru. Moskva, SU: MGU 1989. 239p.

1232 On definitions
    See also 3/4-048, -184

3/4-249   1232
Petrov, Yu.A.: The scientific-practical importance of the effectivisation of definitions. Orig. ru.
Logico-filos.issled., No 1, 1989. p.38-46

124 Knowledge representation
    See also 3/4-050, 078, -112, -179, -191, -326

3/4-250   124
Font, J.M.: Les "graphes de concept". (The concept graphs) Orig.fr. Bull.Cent.hautes etud.int.inform.doc., No 35, 1989. p.111-116

3/4-251   124
Bobrov, A.I.: A knowledge representation language for developing intelligent systems. Orig.ru. In: Metody i sredstva sozdaniya sovrem.avtomatizir.inf.-poisk.sistem: Tez.dokl.2 region. nauch.prakt.konf., Perm', 12 Okt.1989. Perm,SU 1989. p.10-11

3/4-252   124
Carlucci, A.L.; Lenzerini, M., Nardi, D.: Knowledge representation in AI systems. Orig.it. Riv.inform. Vol 19, No 2, 1989. p.93-110, 79 refs.

3/4-253   124; 132
Castellanos, P.J.B.; Gonzalo,M.R., Patos,S.J., Rios,C.: An algebraic structured model of formal knowledge representation (frames and rules). Int.J.Comput.Math. Vol 29, No 1, 1989. p.1-9, 9 refs.

3/4-254   124
Laishchev, I.V.; Shekhovtsov, O.I.: Data manipulation on the semantic superstructure of a factual type IR system. Orig. ru. In: Metody i sredstva sozdaniya sovrem.avtomatizir.inform.-poisk.sistem: Tez.dokl.2 region.nauch.-prakt.konf., Perm', 12 Okt.1989. Perm, SU 1989. p.29

3/4-255   124
Murashov, V.K.: Towards a quantitative assessment of knowledge representation. Orig. ru.
Nauch.-tekhn.inform.,Ser.1, 1989. 19p., 7 refs.
Knowledge-frames are represented by a family of sets. In such a system the following is possible: to compare incoming messages by content; for one and the same elements to form different parts of the system, to form hierarchies by the degree of generalisation. Input of messages into the system and aggregation of new parts are expressed quantitatively by a change in estimate D for finite sets D=Nln Nn, where n is the number of elements in the system and N is the number of sets.
    (Author, abbr.)

3/4-256   124
Ueno, K.; Ishizuka, M.: Knowledge representation and utilisation. Orig.ru (transl.from Japanese). Moskva: Mir 1989. 220p.
A translation of the second volume of a 10-volume series on knowledge engineering written by prominent Japanese specialists in the field of AI.

128 Concepts in certain subject fields
    See also 3/4-270

3/4-258   128-72
Solov'eva, E.A.; Matorin, S.I.: Modelling of conceptual knowledge: a systemic bionic approach. Orig. ru, transl.into en.
Nauch.-tekhn.inform.,Ser.2, Vol 23, No 3, 1989. p.2-8, 36 refs.

3/4-259   128-72
Solov'eva, E.A.; Matorin, S.I.: Modelling methods and models of conceptual knowledge. Orig. ru, transl.into en.
Nauch.-tekhn.inform.,Ser.2, Vol 23, No 4,1989. p.2-8, 38 refs.

3/4-260   128-82
Marloth, H.: Book review of Folbert, O.G., Hackl, C.: Der Informationsbegriff in Wissenschaft und Technik. München-Wien: R.Oldenbourg 1986. 299p. (The information concept in science and technology) Orig.de. Nachr.Dok. 41(1990)No 1, p.60-61

13 Mathematics in Classification

    See also 3/4-059, -064, -072, -253, -255

3/4-261   133
Santamarina,J.C.; Chameau, J.L.: Fuzzy windows and classification systems. Orig.en. Int.J.Man-Machine Studies Vol 32, No 2, 1990. p.187-201, 8 refs.
A fuzzy sets based structure for classification systems is proposed. The basic idea is to use "windows" to represent the constraints on the possible values variables may take. The formalism is very simple, however, this simplicity makes it attractive in the development of knowledge based systems. The most salient features of this structure include the possibility of developing composite solutions, searching for lacunae, and creating a case based representation of knowledge with an avenue for modelling learning.   (Author)

15 Psychology and Classification

    See also 3/4-259, -457

3/4-262   153
Neill, S.D.: Body English: The dilemma of the physical in the objectification of subjective knowledge structures: The role of the body in thinking. J.Doc. 46(1990)No 1, p.1-15, 42 refs.
Evidence is presented to show that the body plays a continuing and fundamental part in the process of thinking and the development of the knowledge used to think. The conclusion is that, if this is true, then there is a crucial part of our subjective knwoeldge base which cannot be represented in an objectified scheme, whether for artificial intelligence or information retrieval, and therefore we cannot expect to get a computer to think as a human being thinks.   (Author)

3/4-263   153; 123
Robertson,W.C.: Detection of cognitive structure with protocol data: predicting performance of physics transfer problems.
Cognitive Science Vol 14, 1990. p.253-280, 20 refs., Appendix
The article presents a cognitive map proposed to be associated with understanding of the "system concept", one component of the physics principle of Newton's second law. A definition of the concept is followed by the results of a problem-solving experiment designed to investigate whether or not good problem solvers possess cognitive structures similar to the one proposed. Think-aloud protocols were collected as subjects solved a series of physics problems involving Newton's second law. Coding schemes were used to analyze these protocols and to develop a quantitative index intended to reflect the extent to which subjects possessed certain components of the proposed structure. This index proved a highly significant predictor of performance on Newton's second law transfer problems contained in a written exam.   (Author, abbr.)

3/4-264   153
Samuels, A.R.: Information clustering and problem solving.
Libr.Trends Vol 38, No 2, 1989. p.157-170, 39 refs.
People absorb information holistically rather than separately
from different levels ranging from the smallest to the highest
visible, from the subconscious mind to the written record. A
major problem in the transfer of information lies in recogniz-
ing that matching information dissemination techniques at all
organizational levels to the characteristic ways people absorb
information is critical in ensuring the success of providing
the right information at the right time.   (Author)

3/4-265   153
Vasilenko, L.I. (Ed.): Problems in philosophic methodology.
Orig.ru. Moskva, SU: AN SSR. Inst.filos. 1989. 173p.
Collection of papers.

154 Concept formation
     See also 3/4-248

3/4-266   154
Markman, E.M.: Constraints children place on word meanings.
Cognitive Science Vol 14, 1990. p.57-77, 39 refs.

156 Cognition and New Knowledge. Knowledge Acquisition
     See also 3/4-027, -047, -175

3/4-267   156
Shapiro, E.L.: Knowledge of the world and its information mo-
dels. Orig.ru. Nauch.-tekhn.inform.,Ser.2, No 9, 1989. p.2-4,
16 refs.

3/4-268   156; 872
Tufte, E.R.: Envisioning information. Orig. en.
Cheshire, CT: Graphics Press 1990. 126p., $ 48.-
The book is a sort of a "Museum of Cognitive Art", containing
with its more than 400 illustrations examples for the "idea
of visual thinking" and provides "practical advice about how
to explain complex material by visual means". Its extraordi-
nary examples illustrate the fundamental principles of infor-
mation display.

157 Computerization of Thought Processes
     See also 3/4-127, -451

3/4-269   157
Artificial intelligence vis-a-vis knowledge and thought: Cogi-
tology. Orig.ru. Tartu, SU: Universitet 1989. 240p.

16 Development of Science and Classification

     See also 3/4-246, -437

3/4-270   161, 128-82
Bonitz, M.: Information - Knowledge - Informatics. Orig.en.
Int.Forum Inform.& .Doc. 15(1990)No 2, p.3-7, 21 refs.
(English translation of 3/4-110)
The author discusses the view of informatics, proposed by Yu.
A.Shreider, as the scientific discipline concerned with the
interaction between knowledge and information.   (Abstr.abbr.)

3/4-271   161
Budd, J.M.: Research in the two cultures: The nature of schol-
arship in science and the humanities. Orig. en.
Collect.Manag. Vol 11, No 3-4, 1989. p.I-21, 54 refs.

3/4-272   165
Avaliani, S.Sh.: The nature of knowledge and of value.
Orig.ru. Tbilisi, SU: Metsniereba 1989. 182p.

3/4-273   165
Ginetsinskij,V.I.: Knowledge as a didactic category: An exper-
ience of didactic cogitology. Orig. ru.
Leningrad, SU: Izd-vo LGU 1989. 144p.

17 Problems in Classification

     See also 3/4-247, -362, -431, -474, -475

3/4-274   179
Kimura, T.; Yoshida, S.: Present state of subject cataloguing
and trends in subject heading research: from the findings of a
study group. Orig.ja. Toshokan Zasshi Vol 83, No 4, 1989.
p.197-199, 9 refs.

18 Classification Research

3/4-275   183; 313
Noirjean,R.: Bar code indexing - clearing the inputting bottle-
neck for improved document management. Orig.en. Int.J.Micro-
graphics and Optical Technol. Vol 7, No 3, 1989. p.103-106
The use of a bar code to identify and track an item in a docu-

ment capture system are examined. Two examples of bar code use
are provided: trucking industry applications and accounts pay-
able applications.   (Author, abbr.)

19 History of Classification
     See also 3/4-514

3/4-276   196
Baudoin de Courtenay, I.A.: On the artificial language (1905).
Orig.ru. In: Probl.struktur.lingv., 1985-1987. Moskva, SU 1989.
p.379-385, 13 refs.
Reprint of an article by the author from a journal called "Es-
peranto" in which he affirms the legitimacy of existence of
"constructed", or "philosophic" languages, based on a logical
classification of human ideas or notions and on designating
them by appropriate symbols, next to natural and international
languages. Listed are several scientists who accepted the idea
of an artificial language and suggested their projects of such
languages, such as Descartes, Dalgarno, Wilkins, Leibniz, etc.

3/4-277   198-825; 43
Lamonde, Y.: Une classification universelle pour l'étude des
bibliothèques et de la librairie au XIXième siècle. (A general
classification for the study of 19th century libraries and
book sellers) Orig.fr. Doc.et bibl. 35(1989)No 2, p.53-58,
12 refs.
The author suggests the use of the 1876 edition of Dewey for
the classification of 19th century printed materials and pro-
poses an outline of a general classification for historians
studying printed materials during the course of a comparative
study of libraries and vendors in the 19th century.

2 STRUCTURE AND
   CONSTRUCTION OF CS & T

21 General questions of CS & T

     See also 3/4-134, -150, -202, -203

3/4-278   212
Jodasová,P.; Samek,T.: The terminology of retrieval languages.
Orig.cs. Ceskoslovenská Inform. 31(1989)No 2, p.45-46, 3 refs.

213 Computerization of Classification Systems
     See also 3/4-429, -448, -474

3/4-279   213; 756
Pitternick, A.B.: Vocabularies for online subject searching.
Orig.en. In: Kent, A.(Ed.): Encyclopedia of Libr.& Inform.Sci.
Vol 45, 1990. p.339-420, 44 refs.
"Precontrol" and "postcontrol" are discussed with relation to
vocabularies, the first examining subject authority systems
and their use in online searching, the last analyzes the pro-
cess of controlling vocabulary online.

3/4-280   214
Bara, Iu.: Problems of modelling and terminological control in
documentary information retrieval systems. A reexamination of
the "thesaurus" concept. Orig. ro, en.
Probl.Inform.si Doc. Vol 23, No 3, 1989

3/4-281   214
Pozhariskij,I.F.: On the lexical composition of the IR thesau-
rus. Orig.ru. Nauch.-tekhn.inform., Ser.2, No 8,1989. p.15-24,
26 refs.
An IR thesaurus rich in phrasal units is less capable of inte-
gration (compatibility) and in addition impedes external data
base searching. Hence the conclusion, that there is no point
in resolving homonymy in thesaurus terms by means of scope
notes; this operation is effectively carried out by the joint
action of the subject heading list and the semantic environ-
ment of the query descriptors. The capabilities of all the
software packages on which the IR system lingware tools can
interact today make it possible to set the goal of develop-
ing highly effective IR thesauri which consist mainly of one-
word terms. The paper outlines the capabilities for compound
word conversion which are opened up during the automatic in-
dexing of geological abstracts.   (Author)

215 Characteristics and kinds of thesauri
     See also 3/4-145

3/4-282   215
Dietze, J.: Thesauruslexik zur Wissensrepräsentation. (Thesau-
rus vocabulary for knowledge representation) Orig.de. Wiss.Z.
Univ.Halle-Wittenberg. G. Vol 38, No 4, 1989. p.99-103

3/4-283   215
Dietze, J.: Die semantische Struktur der Thesauruslexik.
(Semantic structure of a thesaurus vocabulary) Orig.de.
Wiss.Z.Univ.Halle-Wittenberg, G. Vol 37, No 6, 1988. p.120-123

3/4-284   218; 984
Berkovich, E.M.; Ron'kin, M.I.: Two-stage models of efficient
organization of subscriber services at computerized informa-
tion centers. Orig.ru, transl.into en. Nauch.-tekhn.inform.,
Ser.2 Vol 23, No 4, 1989. p.18-22

22 Elements of CS & T

See also 3/4-274

3/4-285   222
Riško,A.: Linguistic interpretation of subject headings. Orig.
sk. Kniž. e Vedecke Inform. 21(1989)No 3, p.99-103, 6 refs.

3/4-287   224; 254
Zenovich, S.V.: A tabular-graphic classification model and its
application in computerized information systems. Orig.ru.
Nauch.-tekhn.inform.,Ser.2, No 7, 1989. p.9-12, 4 refs.

225 Facets and Faceted Classification
     See also 3/4-293, -317, -444, -446, -456

3/4-288   225
Qianjun Ye: A study of isolate citation sequence in informa-
tion retrieval language. Orig. ch.
Tushuguanxue Tongxun, No 1, 1987. p.64-68, 4 refs.

3/4-289   225; 382; 388-26
Sano, Hikomaro: Facet tabulation of index terms. Inform.Pro-
cess.& Management Vol 26, No 4, 1990. p.543-548, 15 refs.
A trial was made to display index terms in a table form with
the aid of a computer. The target data are articulated subject
indexes in which terms are linked with prepositions and commas
to form sentence-like phrases. A simple information extraction
algorithm was devised by utilizing the highly structured syn-
tactic structures; no word dictionary is required. Preposi-
tions and commas are used as delimiters for extracting index
terms pertinent to the essential facets of a subject. The ap-
proach was applied to index modifications in the general sub-
ject index to Chemical Abstracts. The modifications were pro-
cessed on a personal computer laden with LISP programs for in-
formation extraction and table format display. Facet tabula-
tion of index terms not only facilitates rapid scanning but
provides also document arrangements convenient for later re-
ference or review. In addition, it may help a reader quickly
understand index phrases.   (Author, abbr.)

3/4-290   227; 754
Kharin,N.P.: An output ranking method which recognises automa-
tically specified associative relations between terms. Orig.ru.
Nauch.-tekhn.inform.,Ser.2, No 9, 1989. p.19-23, 20 refs.
A technique of ranking retrieved items was developed for docu-
ment retrieval systems using Boolean or Boolean-contextual
search logics. The technique recognizes automatically estab-
lished associative relations between terms in documents. The
ranking technique has been shown experimentally to lead to
significant improvements in retrieval performance.   (Author)

23 Construction of CS & T

See also 3/4-203, -259, -280, -440

3/4-291   231
Oka, Chihomi; Kobayashi,Y., Tokuyama,G.: Deduction and induct-
ion in classification. Orig.ja. ULIS: Res.Report of Univ.of
Libr.& Inform.Sci. Vol 8, No 1, 1989. p.65-79, 17 refs.
Discusses classification schemes as they relate to anmials,
plants and books. Distinguishes analytic/deductive classifica-
tion from synthetic/indexing classification and examines
existing schemes in terms of these 2 approaches.   (Author)

3/4-292   231.02
Svenonius, E.: Design of controlled vocabularies. Orig. en.
Encyclopedia of Libr.& Inform.Sci. Vol 45, Suppl.10, 1990.
p.82-109, 96 refs.

232 Design principles for Classification Systems
     See also 3/4-086, -087, -425

3/4-293   232; 225
Nesterov, A.V.: A document-information classification: a cate-
gorial-facet approach - the basic version. Orig.ru.
Preprint AN SSSR. SO GPNT8, No 4, 1989. 22p., 13 refs.

3/4-294   233
Di Battista, G.; Kangassalo, H., Tamassia, R.: Definition li-
braries for conceptual modelling. Orig.en.
Data & Knowledge Engg. Vol 4, No 3, 1989. p.245-260, 17 refs.
Building a conceptual schema is one of the most difficult
tasks in AI applications and therefore it is proposed to use a
library of concepts to facilitate this task. Such a concept
library is a database with descriptions of concepts in a com-
mon language.

3/4-295   233; 251; 332
Komonov, B.P.: A model for the multi-aspect description of ob-
jects with the help of classes. Orig.ru. Nauch.-tekhn.inform.,
Ser.2, No 7, 1989. p.26-31, 8 refs.
The model is based on the idea that the concept of 'class' is
wider that that of a 'set'. Any set is a class, but a class
need not be a set. Special composite classes and sub-classes
are introduced to represent imprecise (or fuzzy) sets. Opera-
tions with composite classes are subject to multi-valued logic
working on the same principle as operations with standard sets
under binary logic. The possibility exists of extending Bool-
ean algebra and the field of sets in operations with composite
classes which could also be useful in description of complex
or imprecise properties of objects.   (Author)

3/4-296   233; 153
Solov'eva, E.A.; Matorin, S.I.: Methods of modelling and con-
ceptual knowledge models. Orig.ru. Nauch.-tekhn.inform.,Ser.2,
No 4, 1989. p.2-8, 38 refs.

234 Linguistic Support of Descriptor Languages
     See also 3/4-140

3/4-297   234
Buchan, R.L.: Intertwining thesauri and dictionaries. Orig.en.
Inform.Serv.& Use Vol 9, No 3, 1989. p.171-175, 17 refs.
Suggestion to combine the functions of a dictionary and a the-
saurus in a single toul.

3/4-298   234; 6376
Koroleva, V.I.: Linguistic problems of computerised data re-
trieval systems, with special reference to oil and gas pro-
specting economy. Orig.ru. In: Razvitie otrasl.sistemy NTI v
usloviyakh poln.khoz.rascheta i samofinansir. Moskva, SU
1989. p.69-77, 10 refs.

236 Construction of Thesauri for Special Purposes
     See also 3/4-083, -084, -085

3/4-299   236
Sol'nitseva,O.B.: On the development of a subject heading list
for reference/ information service of adademic institution
specialists. Orig.ru. In: Intensif.ispol'z.bibliogr.resursov.
Leningrad, SU 1989. p.123-132, 4 refs.

237 Computer-supported construction of CS & T
     See also 3/4-055

24 Relationships

See also 3/4-159, -456

246 Weights
     See also 3/4-049, -051, -052

3/4-301   246
Al-Hawamdeh, S.; Willett, P.: Comparison of index term weight-
ing schemes for the ranking of paragraphs in full-text docu-
ments. Orig.en. Int.J.Inform.& Libr.Res. Vol 1, No 2, 1989.
p.116-130, 22 refs.
The paper discusses weighting schemes that can be used to dis-
criminate between indexing terms in an experimental retrieval
system for the ranking of the paragraphs comprising a full-
text document. Nine different weighting schems are compared
using 20 full-text documents for which there are 130 associat-
ed queries and relevance judgements.   (Author, abbr.)

3/4-302   246
Taniguchi, Sh.: Extension of the decision-theoretic model of
information retrieval by fuzzy probability. Orig.ja. ULIS:
Res.Report of Univ.of Libr.& Inform.Sci. Vol 8, No 1, 1989.
p.37-47, 14 refs.
Proposes extensions of the decision-theoretical model using
probability measures of fuzzy events. The extensions here are
incorporations of index term weights, multilevel relevance
judgements, and inter-relationships between index terms. The
term weights, indicating relative importance of the terms in
individual documents, are useful to estimate more exactly a
power of a term to discriminate relevant and non-relevant
documents.   (Author, abbr.)

247 Relational Data Files
     See also 3/4-063

3/4-303   247
Worboys, M.: Relational databases: A theoretical primer. In-
form.& Software Technol. 31(1989)No 3, p.115-122, 14 refs.
As a result of their tight and simple formal underpinning, re-
lational techniques are suitable to application to a wide
range of systems. Within the database community, relational
databases have become the dominant type. There are now several
comprehensive products on the market that meet many of the
requirements of a truly relational system, and relational me-
thods appear to be ever more extensively used. Relational

techniques also have the advantage that they interlock well
with standard design methodologies and to newer ideas, such
as object modelling approaches.   (Author, abbr.)

25 Numerical Taxonomy

See also 3/4-295, -359

3/4-304   251
Di Nola, A.; Pedrycz, W., Sessa, S., Sanchez, E.: Designing of
classification procedures with the use of equality and differ-
ence operators. Pattern Recognition Vol 23, No 8, 1990,
p.911-917, 11 refs.

3/4-305   253
Gupta, L.; Sayeh, M.R., Tammana, R.: A neural network approach
to robust shape classification. Orig. en.
Pattern Recognition Vol 23, No 6, 1990. p.563-568, 11 refs.

3/4-306   253
Mučnik, I.B.; Rybina, I.A.: Main characteristics for the dis-
crimination of classes in establishing an empirical classifi-
cation. Orig.ru. Nauchn.-tekhn.inform.,Ser.2, No 2, 1989.
p.29-34, 10 refs.

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Li Wang; Dong-Chen He: Texture classification using texture
spectrum. Pattern Recognition 23(1990)No 8, p.905-910, 17refs.

3/4-308   254
Rybina, I.A.: Partition systems generated by a hierarchy.
Orig.ru, transl.into en. Nauchn.-tekhn.inform.,Ser.2 Vol 23,
No 2, 1989. p.27-32, 13 refs.

3/4-309   254
Shlien,S.: Multiple binary decision tree classifiers. Orig.en.
Pattern Recognition Vol 23, No 7, 1990. p.757-763, 32 refs.

3/4-310   258-51/4
Brown, M.L.: Fitting and interpreting loglinear interactions
in cross-classifications from health policy and medicine.
Orig.en. Meth.Inform.Med. Vol 29, 1990. p.104-112, 23 refs.

3/4-311   258-835
Teory,T.J.; Wei Guangping, Bolton,D.L., Koenig, J.A.: ER model
clustering as an aid for user communication and documentation
in database design. Commun.ACM 32(1989)No 8, p.975, 21 refs.

3/4-312   258-849
Ammar, M.; Yoshida, Yu., Fukumura, T.: Structural description
and classification of signature images. Orig. en.
Pattern Recognition Vol 23, No 7, 1990. p.697-710

3/4-313   258-91
Delcourt,Ch.: Where have all the key-words gone? Computers &
Humanities Vol 23, No 4-5, 1989. p.285-291, 14 refs.
It is argued that statistical modelling seems as valid in sty-
listics as in any other field of the humanities and social
sciences.

27 Revision, Updating, & Maintenance
See 3/4-357

28 Compatibility and Concordance

See also 3/4-074, -206, -418

3/4-314   286
Yamada, N.: Changing a classification scheme: the case of
Kyoto University Education Department Library. Orig. ja.
Toshokan Zasshi 83(1989)No.5, p.266-267
The Kyoto University Education Department Library decided in
1987 to change from their own classification system to the
Nippon Decimal Classification (Nihon Jushin Bunruihyo), which
is used in 80% of the Japanese university libraries. Pre-1986
books were excluded except for those from continuing series.
Books were labelled in different colours.

3/4-315   287
Kristal'nyj, B.V.: A uniform system of rubricators - lingustic
basis for the network within GASNTI. Orig. ru.
Nauch.-tekhn.inform.,Ser.1, No 7, 1989. p.13-15

3/4-316   287
Riesthuis,G.J.A.; Stuurman,P.: Trends in subject analysis (3):
coordinate indexing languages. Orig. nl.
Open Vol 22, No 1, 1990. p.11-15, 24 refs.
The authors conclude that the ideal indexing system is based
on a coordinate vocabulary which allows in retrieval both, the
utilization of index terms and the notations of classification
systems.

29 Evaluation of CS & T

See also 3/4-486

3/4-317   292; 225
Ramachandran, M.: Citation order in CC, UDC, and DC. Orig.en.
Int.Libr.Mov. Vol 11, No 1, 1989. p.46-48

3/4-318   294
Lancaster, F.W.: The perspective: natural language versus con-
trolled language. A new examination. In: Oppenheim,C., Citro-
en, C.L., Griffiths, J.M. (Eds.): Perspectives in information
management. Vol.1. London, GB: Butterworths 1989. p.1-23
Tries to determine when natural language is likely to be pre-
ferred over the use of a controlled vocabulary, and vice
versa.

3/4-319   295
Kràlova, A.: Preparation of coordination tables of information
retrieval languages using the BALEX data base. Orig. sk.
Knižnice a Vedecké Inform. 21(1989)No 3, p.104-108, 6 refs.
The Centre for Retrieval Languages of the Institute for Scien-
tific, Technical and Economic Information carried out an eva-
luation of information retrieval languages using the SEMAN me-
thod and the BALEX data base which contains about 190,000 le-
xical units. It is classed according to the UDC, the Union In-
dustrial Classification system and the International Patent
Classification system. The SEMAN method has shown to be a
suitable method for the comparison of such systems.

3 CLASSING AND INDEXING

31 Theory of Classing and Indexing

See also 3/4-137, -156, -275

3/4-320   311
Mueller,J.: Indexing and abstracting. In: North Atlantic Trea-
ty Organization. Advisory Group for Aerospace Research and De-
velopment: The organisation and functions of documentation and
information centers in defence and aerospace environments.
Neuilly sur Seine, FR 1989. p.6.1-6.8, 9 refs.
Introductory article on the topic for the Technical Informa-
tion Panel which met in Athens, GR, 19-20 Oct.1988.

3/4-321   313; 934
Varfolomeeva, M.V. (Ed.): Scientific cataloguing and catalogue
management: Collected papers. Orig.ru. Moskva, SU: Bibl.sov.po
estestv.naukam pri Prezidiume AN SSSR 1988. 196p.
Different aspects of centralized cataloging are considered
such as: Centralized description, classification, terminologi-
cal problems of document title translation for the systematic
file of the national union catalogues.

3/4-322   313
Taya,H.; Marsushima,F., Sairaiji, H., Takagi, H., Nakamura,N.:
J-BISC system as a tool for information retrieval of Japanese
books. Indexing, Part 1. Orig.ja. Kagaku gijutsu bunken sabi-
su-Sci.(Technol.Inform.Serv.), No 9, 1989. p.4-13

32 Subject Analysis
See also 3/4-043, -082, -111, -242, -243

3/4-324   323
Riesthuis,G.J.A.; Stuurman, P.: Trends in subject indexing, 1:
Contents analysis. Orig. nl.
Open Vol 21, No 6, 1989. p.214-219, 21 refs.
Much attention has been paid to translating the contents of
documents into indexing language terminology, however, less
thought has been given to identify the meaning of documents.
Also, too little is known about the process by which a reader
absorbs information.

3/4-325   323
Dykstra, M.: Subject analysis and thesauri: a background.
Orig.en. Art Doc., No 8, 1989. p.173-4

3/4-326   323.751; 124
Kuhlen,R.; Hammwöhner,R., Sonnenberger,G., Thiel,U., Yetim,F.:
Projekt Automatische Textkondensierung mit flexiblen graphik-
gestütztem Retrieval und Wissensrepräsentation (TWRM-TOPOGRA-
PHIC). Abschlußbericht. (Project automatic text condensation
with flexible, graph-supported retrieval and knowledge repre-
sentation. Final Report) Orig.de. Konstanz, FRG: Universität.
Fachgruppe Politik-/Verwaltungswissenschaft, Bereich Informa-
tionswissenschaft 1989. 44p., 39 refs.

3/4-327   324.213
Mohler, P.P.; Züll, C., Geis, A.: Die Zukunft der computerun-
terstützten Inhaltsanalyse (cui). (The future of computer-aid-
ed contents analysis) Orig.de.
ZUMA-Nachr., No 25, 1989. p.39-46, 15 refs.

33 Classing and Indexing Techniques

See also 3/4-295

3/4-328   331
Yu Tao: The general applicability and specificity of documentation rules for indexing. Orig. ch.
Tushuguanxue Tongxun, No 1, 1987. p.61-63, 1 ref.

3/4-329   331.02
Hill, J.S.: Cataloging and classification. Orig. en.
In: ALA Yearbook of Library and Information Services, Vol 14.
Chicago, 1L: Amer.Libr.Assoc. 1989. p.86-7

3/4-330   334
Khanshin, A.G.: A theory for coordinate indexing: an essay.
Orig.ru. Nauch.-tekhn.inform.,Ser.2, No 10, 1989. p.19-24,
10 refs.

34 Automatic Classing and Indexing

See also 3/4-041, -054, -113

3/4-331   341
White Head, J.: Computerized indexing and retrieval systems.
Orig.en. Inform.media technol. Vol 22, No 2, 1989. p.64-68

3/4-332   342; 753
Chang, J.W. et al: Multikey access methods based on term discrimination and signature clustering. Orig.en. In: 12th Int.
ACM/SIGIR Conf.on Research and Development in Information Retrieval. Cambridge, MA: ACM Press 1989. p.176-185

3/4-333   342
Huffman,G.D.; Vital,D.A., Bivins,R.G.,Jr.: Generating indices with lexical association methods: term uniqueness. Orig. en.
Inform.Process.& Management 26(1990)No 4, p.549-558, 6 refs.
A software system has been developed which orders citations retrieved from an online database in terms of relevancy. The system resulted from an effort generated by NASA's Technology Utilization Program to create new advanced software tools to largely automate the process of determining relevancy of database citations retrieved to support large technology transfer studies. The ranking is based on the generation of an enriched vocabulary using lexical association methods, a user assessment of the vocabulary and a combination of the user assessment and the lexical metric. One of the key elements in relevancy ranking is the enriched vocabulary - the terms must be both unique and descriptive. This paper examines term uniqueness.   (Author, abbr.)

343   Gen., Linguistic and Statistical Methods
       See also 3/4-046, -57, -066, -138, -139, -200, -

3/4-334   3432
Panevová, M.: Retrieval language PASSAT. Orig. cs.
Ceskoslovenská Inform. Vol 31, No 4, 1989. p.102-105, 6 refs.

3/4-335   3433; 345
Jones,L.P.; Gassie, E.W.,Jr.: INDEX: The statistical basis for an automatic conceptual phrase-indexing system. Orig. en.
J.Amer.Soc.Inform.Sci. Vol 41, No 2, 1990. p.87-97
Discussion of a program called INDEX, a statistically based phrase-indexing program and an extended version, INDEXD which incorporates a dictionary which gives additional capacity for statistical analysis and also certain capacity for syntactic analysis.

3/4-336   3439
Abramova, N.N.; Bevzenko, E.A., Belonogov, G.G., Globus, E.I.,
Zelenkov, Yu.G., Novoselov, A.P.: Automated indexing of documents by keywords and word combinations. Orig. ru.
Nauchn.-tekhn.inform.,Ser.2, No 4, 1989. p.29-31, 4 refs.

3/4-337   3439
Cawkell, A.E.: Automatic indexing in the Science and Social Science Citation Index CD-ROM. Orig. en.
Electronic Library Vol 7, No 6, 1989. p.345-350, 10 refs.

344   Computer-aided Indexing
       See 3/4-199

3/4-338   345
Hancox, P.: A recursive algorithm for generating SLIC index entries. Program Vol 23, No 3, 1989. p.311-317, 7 refs.

3/4-339   347; 88-51/4
Humphrey, S.; Chien, De-Chih: The MedIndEx System: Research on interactive knowledge-based indexing and knowledge base management. Orig.en. Bethesda, MD: National Library of Medicine 1990. 253p., Rep.No.NLM-LHC-90-03
The MedIndEx (Medical Indexing Expert) System is an interactive, knowledge-based prototype for computer-assisted indexing of the biomedical literature being developed at the Lister Hill National Center for Biomedical Communications (LHNCBC), a research division of the National Library of Medicine (NLM). The system uses an experimental frame language featuring inheritance and procedural attachments, and is designed to interact with trained MEDLINE (R) indexers by prompting them to enter MeSH (R) (Medical Subject Headings) terms as slot fillers in completing document specific indexing frames derived from knowledge base frames corresponding to MeSH concepts.
                                                         (Author, abbr.)

3/4-340   348
Knowledge-based indexing system. Orig. en.
Inform.Retrieval & Libr.Autom. Vol 26, No 1, 1990. p.8
Information on the indexing system employed at Reuters for the Reuter Country Reports, Reuter Textline and other texts from its Historical Information Products Division.

3/4-341   348
Ostapenko, V.E.: Term identification and classification by means of elementary quantitative models. Orig. ru.
Nauch.-tekh.inform.,Ser.2, No 11, 1989. p..24-28, 17 refs.
Based on an analysis of the lexical/statistical structure of three elementary models, the procedure of their integration into a system allowing one to identify and classify terms automatically has been developed.   (Author, amended)

35 Manual and Automatic Ordering

3/4-342   351
Boulanger,D.; March, S.T.: An apporach to analyzing the information content of existing databases. Orig. en.
Data Base Vol 20, No 2, 1989. p.1-8, 33 refs.

355   File ordering/organization
       See also 3/4-456

3/4-343   353; 355
Ito, T.; Nakashima, M.: Modification of a multilevel indexed descriptor file. Orig.en.
Inform.Systems Vol 14, No 4, 1989. p.317-326, 16 refs.
The paper discusses a method of modifying the existing file structure so as to cope with the problem that a file search may need backtracking, i.e. the examination of more than one block at some level, even for retrieving exact-matches.
                                                         (Author, abbr.)

356   Hypermedia
See also 3/4-098, -149, -150, -152, -183, -187, -210, -223

3/4-344   356
Fischer,G.; MacCall,R., Morch,A.: JANUS: Integrating hypertext with a knowledge-based design environment. In: Assoc.f.Computing Machinery (ACM); Hypertext '89 New York,NY 1989. p.105-17, 16 refs.

3/4-345   356
Fluhr, C.: Construction automatique de liens hypertextes. (Automatic construction of hypertext links) Orig.fr.
Bull.Cent.hautes étud.in.inform.doc., No 35, 1989. p.89-98

3/4-346   356
Kinnell, S.K.: Hypertext on the PC: Guide, version 2.0.
Orig.en. Database Vol 12, No 4, 1989. p.62-66

3/4-347   356
Levin, M.Sh.: Hierarchic hypertext system. Orig. ru.
Nauch.-tekhn.inform.,Ser.2, No 6, 1989. p.10-13, 13 refs.

3/4-348   356
Shneiderman, B.; Kearsley, G.: Hypertext Hands-On!: An introduction and a new way of organizing and accessing information.
Reading: Addison-Wesley 1989. XI+165p. + 2 diskettes
ISBN 0-201-15171-5
Book review by K.S.Catiin in: Inform.Processing & Management 26(1990)No.4, p.559-571, 1 ref.
Included with each copy of the book is a set of two IBM PC diskettes that contain a hypertext version of the book. All the software needed to browse this electronic version is included on the diskettes. To run it one needs an IBM PC or compatible with at least 384 K of memory, a color or monochrome monitor (CGA, EGA, or VGA graphic adapter required to view graphics), and two 5.25 floppy disk drives or one 5.25 floppy disk drive with a hard disk.

357   Document Structuring   See 3/4-065

38 Index Generation and Programs
       See also 3/4-009, -156, -289, -333, -334, -335, -474

3/4-350   382
Hitchcock, L.A.: The Play's the Thing... If you can find it!.
An assessment of play indexes. Orig. en.
RQ Vol 29, No 2, 1989. p.248-249, 19 refs.

The study attempts to devise a strategy for play index use that will provide some assurance of efficiency and effectiveness. It clarifies the indexes' coverage characteristics and tests their citation productivity with carefully selected play titles.

3/4-351   383
Kucianová, A.: Compiling title and corporate subject entries.
Orig.sk. Kniž.a ved.inform. 21(2989)No 5, p.214-220, 3 refs.

3/4-352   383
Serebrjannikova,T.O.: Computer-supported establishment of subject indexes to bibliographies. Orig. ru.
Nauch.-tekhn.bibl.SSSR, No 2, 1989. p.28-32, 19 refs.

3/4-353   384
Fetters, L.K.: A guide to indexing software. 3rd ed. Washington, DC: Amer.Soc.of Indexers 1989. 26p., ISBN 0-936547-06-5
Description of nine indexing programs and mentioning of 3 further ones which work with printed page proofs from a publisher or for creating a magazine index. The programs do the alphabetizing, formatting, and printing. The nine programs exist for the IBM PC family. The introduction covers help in choosing a program and a survey on the organization of the reviews on the nine indexing programs. It also provides a Comparison Chart for the basic features, the editing and displaying entries, the formatting/printing features, and the sorting. The program features are explained in detail subsequently.

3/4-354   386
Veneziano, V.: The "new" NOTIS/LUIS indexes. Orig. en.
Inform.Technol.& Libr. Vol 8, No 1, 1989. p.5-19

3/4-355   387
CDS/ISIS - IBM mainframe version. Orig. en.
Int.Inform.Commun.& Educ. Vol 8, No 1, 1989. p.114-116

3/4-356   387
Inozemtsev, V.A.: Some aspects of development and classification of knowledge representation languages. Orig. ru.
Logiko-filos.issled., No 1, 1989. p.47-55

3/4-357   387.272
Sick, D.: Aufbau und Pflege komplexer natürlichsprachig basierter Dokumentationssprachen (Thesauri). Aktuelle Tendenzen und kritische Analyse einer ausgewählten autonomen Thesaurus-Software für Personal-Computer (PC) (Diplom-Arbeit). (Construction and maintenance of complex documentary languages (thesauri). Trends and critical analysis of a selected stand-alone thesaurus software for PCs) Orig. de. Saarbrücken: Universität des Saarlandes. 1989. 189p. (MS-Thesis work), refs.
In chapters 2-5 the author presents the foundations, state-of-the-art and development trends of the thesaurus method in the light of new technologies. Chapter 5 contains the draft of an evaluation sheet for thesaurus software and in chapters 6-7 the newest PC-Software for thesaurus-management is evaluated in an application test.   (Author, abbr.& transl.)

3/4-358   387; 754
Zarri, G.P.: A knowledge representation language for large knowledge bases and "intelligent" information retrieval systems. Inform.Process.& Management 26(1990)No 3, p.349-370

3/4-359   388-26
Lawson, R.G.; Jurs, P.C.: New index for clustering tendency and its application to chemical problems. Orig. en.
J.Chem.Inform.Comput.Sci. Vol 30, No 1,1990. p.36-41, 17 refs.

39 Evaluation of Classing and Indexing

See also 3/4-067, -073, -125, -158, -538

3/4-360   392
Iivonen,M.: Interindexer consistency and the indexing environment. Int.Forum Inform.& Doc. 15(1990)No 2, p.16-21, 13 refs.

3/4-361   396
Allen, B.: Recall cues in known-item retrieval. Orig. en.
J.Amer.Soc.Inform.Sci. Vol 40, No 4, 1989. p.246-252, 44 refs.
Examines the effect of different kind of cues on the recall of a text.

3/4-362   396; 173
Blair,D.C.; Maron, M.E.: Full-text information retrieval: Further analysis and clarification.
Inform.Process.& Management Vol 26, No 3, 1990. p.437-447
In 1985, an article by Blair and Maron described a detailed evaluation of the effectiveness of an operational full text retrieval system used to support the defense of a large corporate lawsuit. The following year Salton published an article which called into question the conclusions of the 1985 study. The following article reviews the initial study, replies to the objections raised by the second article and clarifies several confusions and misunderstandings about the 1985 study.

3/4-363   397
Feng, S.: A comparative study of indexing languages in single and multidatabase searching. Orig. en.
Can.J.Inform.Sci. Vol 14, No 2, 1989. p.26-46, 22 refs.

3/4-364   398-546
Brenner, S.H.; McKinn, E.J.: CINAHL and MEDLINE: comparison of indexing practices. Orig. en.
Bull.Med.Libr.Assoc. Vol 77, No 4, 1989. p.366-371, 19 refs.

4 ON UNIVERSAL SYSTEMS

41 On Universal CS & T in General

See also 3/4-144

3/4-365   418-432
Markham, J.W.: LCC, DOC, and Algae. Libr.Resources & Techn. Serv. Vol 34, No 1, 1990. p.54-61, 20 refs.
A comparison of the systematization of algae in the Library of Congress Classification which puts all families of plants alphabetically together and in the Dewey Decimal Classification which arranges hierarchically in correspondence to botanical classification.

42 On the Universal Decimal Classification

See also 3/4-131, -153

3/4-366   42.08
Gilchrist, A.; Strachan, D. (Eds.): The UOC: Essays for a new decade. London, GB: Aslib 1990. 97p., ISBN 0-85142-265-9
The essays include four "managerial" and six "technical" papers either collected from somewhere else or written especially for this publication. 3/4-367 Strachan, P.O.: UDC revision work in FIO. - 3/4-368 Scibor, E.; Shcherbina-Samojlova, I.S.: A strategic approach to revising the UDC. - 3/4-369 McIlwaine, I.: The work of the UDC System Development Task Force. 3/4-370 Williamson,N.: The UDC: its future. - 3/4-371 Haarala, A.R.: FIO pre-conference seminar on computer applications of the UDC. - 3/4-372 Loth, K.; Funk, H.: Subject search on ETHICS on the basis of the UDC. - 3/4-373 Karhula, P.: Use and usability of the UDC in classification practice and online retrieval. - 3/4-374 Rinne,B.: HELECON system: economics databases. 3/4-375 Nakamura, Y.; Ishikawa, T.: Expert system for automatic UDC number assignment. - 3/4-376 Riesthuis, G.J.A.; Bliedung,S.: Thesaurification of UDC.

3/4-377   42.174
Canisius, P.: Entscheidung über die UOC 1991. FID-Rat stellt Weichen für künftige Entwicklungen. (Decision about the UDC in 1991. FID Council prepares the way for future developments) Orig.de. DGD-Mitt. Vol 1, No 2, 1990. p.6
The Council decided to continue the support of the UDC until Dec.1991 and to find in the meantime an institution who would serve as its future publisher. If no institution can be found, the UDC will have to be discontinued from the part of the FID.

3/4-378   42.213
Neicu, S.D.: Computer-supported handling of UOC-numbers and auxiliaries with regard to retrieval. Orig. ro, en.
Biblioteca, Bucuresti, No 3, 1989. p.16-18, 2 refs.
Work on a UDC edition in Romanian is done by the Intitutul National de Informare si Documentare Stiintifica si Tehnica in Kukarest since 1979. Ever since 1987 this work has been computerized for editing and index preparation.

3/4-379   42.225
Mandryka, T.N.; Shchedrina-Samojlova, 1.S.: Using a facet formula for perfecting the UOC scheme. Orig. ru.
Nauch.-tekhn.inform.,Ser.1, No 10, 1989. p.13-15, 20, 8 refs.

3/4-380   42.6-63; -72
New schedule for UDC 65. Orig. sk. Sprav.Sloven.techn.knizn., No 1, 1989. p.10-11
The Slovak Technical Library published in late 1988 the schedules for Administration, Organization of production, commerce and transport.

3/4-381   42.756
Gödert, W.: Die Dezimalklassifikation im Online-Retrieval. (The UDC in the online-retrieval) Orig.de. Nachr.Dok. Vol 41, No 3, 1990. p.155-158
In addition to a paper by H.J.Hennes and M.Bischoff (in Nachr. Dok.40(1989)p.355-360) in this note some structural features of the UDC are considered which may be of importance for an online retrieval with synthesized UDC notations.

3/4-382   42.88; 42.99
Rozenshil'd, L.K.: Toward the uniform usage of classification terms. Orig. ru. In: Nauch.katalogiz.lit. i org.katalogov. Moskva, SU 1988. p.58-69, 5 refs.

3/4-383   42.8-817
Bauer,I.; Zajec,J., Kritovac,D., Svarc,J., Milas-Bracovic, M.,
Dolezal, V.: An approach to UDC application to the classifica-
tion and indexing of research materials. Orig. sh.
Informatol.Yugosl. Vol 20, No 3-4, 1988. p.179-142, 22 refs.

43 On the Dewey Decimal Classification (DDC)

See also 3/4-033, -034, -277, -555, -556

3/4-384   43.07
Sifton, P.; Dragani, N.: Workbook for DOC 20: Dewey Decimal
Classification, Edition 20. Orig.en. Ottawa, Ont.: Canadian
Library Association 1989. 48p., ISBN 0-88802-252-2

3/4-385   43.08
Friis-Hansen, J.: Book review of Comaromi, J.P., Satija, M.P.:
Dewey Decimal Classification. History and current status. New
Delhi: Sterling Publ.1989. 178p. Orig. en.
J.Librarianship Vol 21, No 3, 1989. p.210-211

3/4-386   43.4
Merwe,M.S.van der: Comments on Dewey 20. Mousaion Vol 8, No 1,
1990. p.22-31
Critical review of the new edition from the point of view of
a teacher of classification in South Africa.

3/4-387   43.4
Berman, S.: DDC20: the scam continues. Orig. en.
Libr.J. Vol 114, No 15, 1989. p.45-48, 5 refs.
The interview with Sanford Berman pinpoints his criticism con-
cerning user-unfriendliness, lacking realism, lack of informa-
tion on changes and non-practicability in libraries, shown
by numerous examples.

3/4-388   43.4
Srinath,M.: DDC20: the striking differences from 19th edition.
ILA Bull. Vol 25, No 2, 1989. p.100-103, 1 ref.

3/4-389   43.4
Zanobi, A.; Grignani, E.: Quaderno Dewey: esercitazioni sulla
Edizione 20 della Classificazione Decimale Dewey. (Exercises
on the 20th edition of the Dewey Decimal Classification)
Orig.it. Milano: Bibliografica 1990. 137p.

3/4-390   43.6-83
Schroeder,C.D.: Digital warrant: revised DDC 004-006 in a pu-
blic library. Libr.Resources & Techn.Serv. Vol 32, No 4, 1988.
p.367-377, 17 refs.
It is reported that the revised schedules for data processing,
computer science and computer engineering (004-006) were easy
to learn and apply, and browsability was improved by reclassi-
fication in the Boston Public Library.

3/4-391   43.6-967
Walt, M.S. van der: Adaptation of the Dewey Decimal Classifi-
cation System to South African Libraries. Orig. af.
S.Afr.J.Libr.& Inform.Sci. 57(1989)No 1, p.34-44, 17 refs.
A variety of techniques for successfully adapting Dewey for
local requirments is recommended as well as the use of a num-
ber of specific existing adaptations and internal options.
Guidelines are given to ensure justifiable and successful
adaptations in the future.

3/4-392   43.6-967; 44.6-967; 6967
Iwuji, H.O.: Africana in LC and DO classification schemes: a
need for an Africana scheme?
J.Librarianship Vol 21, No 1, 1989. p.1-18

3/4-393   43.6-99; 9843
Woods, J.: Using Dewey in a mission library. Orig.en. Bull.
Assoc.Brit.Theol.& Philosph.Libraries 2(1989)No 5, p.11-13
Presentation of notes on the adaptations made to class 200 in
Parternship House Library, a modern mission library formed in
1988 by the amalgamation of the post-1945 stock of the libra-
ries of 2 Anglican missionary societies.

44 On the Library of Congress Classification
and on the Library of Congress Subject Headings

See also 3/4-030, -031, -032, -392

3/4-394   44.07
Dasgupta, A.: Book review of Library of Congress subject cata-
loging manual - Subject Headings. 3rded. Orig. en.
IASLIC Bull. Vol 34, No 3, 1989. p.141-143

3/4-395   44.6-667 DE
Goldberg, J.E.: Library of Congress Class KK: Law of Germany.
A historical review of law classification. Orig. de. In: Hahn,
G., Kirchner, H.; Parlament und Bibliothek. Int.Festschrift f.
Wolfgang Dietz zum 65.Geburtstag. München: K.G.Saur Verl.1986.
p.328-344, 40 refs.

The four chapters describe: Introduction. The history of the
Library of Congress Law Classification (early years, struct-
ure and scope of the anticipated Class K, the German law sche-
dule, method of development of law schedules), Structure of
subclasses KK-KKC within Class K, and the subject arrangement
of schedules KK and KKA.

3/4-396   448-92
Wilson, P.; Robinson, N.: Form subdivisions and genre.
Libr.Resources & Techn.Serv. 34(1990)No 1, p.36-43, 17 refs.
LC's scheme of genre description is incomplete and could be
extended usefully.

3/4-397   448.172
Calderon, F.: Library of Congress Subject Headings: Vested in-
terest versus the real needs of the information society.
Cat.& Classif.Quart. Vol 11, No 2, 1990. p.85-94, 19 refs.
America's higher education system does not have a modern tool
of information retrieval by subject. The failure to fulfill
that mission belongs to the Library of Congress Subject Head-
ings. Although the consequences of such failure are awesome,
no effort is going on to adopt a different subject indexing
vocabulary. If that substitution does not happen soon enough,
harm will be inflicted on the millions of students attending
colleges and universities, as well as the legion of profes-
sionals who use research libraries all over North America. The
crisis has to be brought into the open and given the wide dis-
cussion it deserves, especially in the United States and
Canada.   (Author)

3/4-398   448.213
Joy, A.H.; Keane, N.J.: CDMARC Subjects: The Library of Con-
gress Subject Headings on CD-ROM. Orig. en.
CD-ROM Librarian Vol 4, No 9, 1989. p.36-45

3/4-399   448.756
Lucas,D.: Book review of Markey, K., Vizine-Goetz, D.: Charac-
teristics of subject authority records in the machine-readable
Library of Congress Subject Headings. Dublin, OH: OCLC 1988.
XXXII,164p. Cat.& Classif.Quart. Vol 10, No 4, 1990. p.116-118

3/4-400   448-6
Studwell, W.E.: Subject suggestions 7: Some concerns relating
to the social sciences. Orig. en.
Cat.& Classif.Quart. Vol 11, No 2, 1990. p.95-101
Four policy proposals are presented which affect LC's subject
headings for the social sciences: clarification of the use of
disciplines versus topics; clarification of the meaning and
usage of the subdivision "Civilization"; use of "Law and le-
gislation" as a free-floating subdivision; and some suggest-
ions for dealing with controversial social topics.   (Author)

46 On the Colon Classification (RCC)

3/4-401   46.07
Andrews, D.: Book review of Satija, M.P.: Colon Classification
(7th ed.): A practical introduction. New Delhi: Ess Ess Publ.
1989. IX,236p. J.Librarianship 22(1990)No.1, p.59-60

3/4-402   46.172
Satija, M.P.: Colon Classification, 7th edition (1987): A cri-
tical introduction. Outlook on Research Librs. Aug.1990. p.4-9

3/4-403   46.293
Husain,Sh.; Mustafa Khan, M.T.: Conceptual changes in the fun-
damental categories in CC7. An evaluation. Orig. en.
Herald of Libr.Sci. Vol 29, No 1-2, 1990. p.45-50, 10 refs.
Makes an evaluation of the many conceptual changes with re-
gard to Fundamental Categories in Ed.7 of the CC. Traces the
development of the fundamental categories PMEST, explaining
each of the concepts with examples. Discusses the Matter Mate-
rial Category, Matter Property Category and Matter Method Ca-
tegory introduced in the new edition of the scheme.   (Author)

3/4-404   46.6-39
Kumar,B.K.: Geographical divisions of East Asia in Colon Clas-
sification (Edition 7): An appraisal and a reconstruction.
Orig.en. ILA Bull. Vol 25, No 2, 1989. p.104-110
The article presents an elaborate critique of the 'new sche-
dule' of China and its peripheral territories included in the
chapter on 'Space Isolates' in the 7th ed. of CC taking into
account the author's earlier attempt on this subject and S.R.
Ranganathan's "tentatively revised Schedule of Geographical
Divisions of China". A reconstruction of a detailed schedule
of East Asian countries is given.   (Author, amended)

47 On the Library Bibliographical Classif.
See also 3/4-142   **(LBC/BBK)**

3/4-405   47.6-39
Sukiasjan, E.R.: The area studies section of the collection.
Orig.ru. Bibliotekar' (USSR), No 2, 1988. p.46-7

3/4-406   47.6-56
Popova, A.: Hard cases. (Pedagogical literature in the second edition of the BBK for public libraries). Orig. ru.
Bibliotekar' (USSR), No 10, 1987. p.60-61

3/4-407   47.6-7; 47.173
Goltvinskaja, T.: Difficult cases: BBK classification of technical literature for regional libraries. Orig. ru.
Bibliotekar' (USSR), No 2, 1988. p.62-63

3/4-408   47.6-962
Makhotkina,L.N.: Ethnic common divisions in the BBK tables for regional studies catalogs. Orig.ru.
Sov.Bibl., No 6, 1987. p.44-47

3/4-409   47.812; 47.6-46; -71/2; -62
Bobko, A.N.; Tyryshkina, Z.I.: Methods of repeated coverage of literature by classed catalogues in agriculture, economy, and political sciences in the LBC tables, with special reference to the classed catalogue of GPNTB SO AN SSSR. Orig.ru. In: Nauch.katalogiz.lit. i org.katalogov. Moskva 1988. p.25-204

48 On Other Universal Systems

3/4-410   483 JA
Initial aims in the revision of Kihon Kenmei Hyomokuhyo, 3rd ed. Orig.ja. Toshokan Zasshi Vol 83, No 5, 1989. p.264-265
Kihon Kenmei Hyomokuhyo (Basic Subject Headings), a list of only 4,270 headings, is meant for public and educational libraries in Japan. The article discusses questions of omission of proper names, simple and compound words, synonyms, direct references to subordinate terms, entry of explanatory details.

3/4-411   485.213
Ishiyama, H.; Nagata, H.: Publication of the Nippon Decimal Classification (NDC) machine readable data file. Orig. ja.
Toshokan Zasshi Vol 83, No 4, 1989. p.202-203
The Japanese Nihon Jushin Bunruiho (Nippon Decimal Classification) in its 8th edition is now available as a data base with all the advantages which this form will mean: easy updating and revision, retrieval aid, basis of a Braille version, translation into other languages.

3/4-412   485.27
Outline of Nihon Jushin Bunruiho (Nippon Decimal Classification) draft 9th edition 2: Languages. Orig. ja.
Toshokan Zasshi Vol 83, No 3, 1989. p.143-146
Revision proposals of the 8th ed. include linguistics, language in society, classification of languages, and Japanese.

3/4-413   487
Jenkins, G.: Function and application - is there a difference?
World Patent Information 11(1989)No 3, p.121-124, 2 refs.
In the light of recently agreed changes to Chapter III of the Guide to the IPC the meanings of the terms 'function' and 'application' are examined. It is suggested that technical disclosures collectively comprise a continuous spectrum of information and that technical subjects are clusters of disclosures on particular 'planes' on this spectrum. The ideas of 'function' and 'application' are explained as relativities between these planes.   (Author)

3/4-414   487
Jenkins, G.: The use of technical planes in structuring the classification.
World Patent Information Vol 11, No 4, 1989. p.187-192, 1 ref.
The article demonstrates, with examples, some of the practical effects of the idea of planes on the design and development of the International Patent Classification.   (Author, abbr.)

3/4-415   487
Schweikhardt, F.: Some thoughts on hybrid systems especially for patent documentation. World Patent Information Vol 11, No 3, 1989. p.125-133, 23 refs.
The article traces the development of hybrid systems, including their adoption into the IPC. It explains their basic principles and reviews the offices and commercial organizations which utilize them.   (Author)

3/4-416   487
Snow, D.C.: Why 'hybrid' information systems?. World Patent Information Vol 11, No 4, 1989. p.200-207, 10 refs.
Discussion of the origins of hybrid classification systems, their characteristics, and their advantages and disadvantages. The structure of technological information in patents and the basic pattern of its description is reviewed briefly and the document classification and indexing component of hybrid systems is analyzed.   (Author, abbr.)

3/4-417   487.1
Vries, S.de: Points of interest concerning the new IPC.
World Patent Information Vol 11, No 3, 1989. p.115-120, 1 ref.
Useful adaptations to new techniques and to keep the size of the search files of the new IPC manageable are presented.

3/4-418   487.626; 287
Kaback, S.M.: WPI and APIPAT: the sum of the parts. Database Vol 13, No 2, 1990. p.22-26, 3 refs.
Description of the merger of the database APIPAT into WPI, that makes the Derwent abstracts in WPI available for most of the earlier references in APIPAT.

3/4-419   487.753
Lêpêe. W.: EPOS: a linguistic tool for full text search.
World Patent Information Vol 11, No 4, 1989. p.149-199
EPOS (EPO Synonyms) is a system being devised by the European Patent Office as a full text search tool to assist the examiner in querying databases. If an examiner knows one word expressing his field of interest, EPOS delivers to him all the ECLA (EPO classification) groups where this basic term is considered relevant.   (Author, abbr.)

489 On CS for Other Special Purposes   See also 3/4-529

3/4-420   489
Superintendent of documents classification system. Orig. en.
In: Pokorny, E.J., Miller, S.M.; U.S.Government Documents. Littleton, CO: Libraries Unlimited 1989. p.19-24

5 ON SPECIAL OBJECTS CS

3/4-421   519; 7578
Gawron,V.J.; Drury,C.G., Czaja,S.J., Wilkins,D.M.: A taxonomy of independent variables affecting human performance. Int.J. Man-Machine Studies Vol 31, No 6, 1989. p.643-671, 21 refs.
As part of an ongoing program to develop a Computer Aided Engineering (CAE) system for human factors engineers, a Human Performance Expert System, Human, was designed. The system contains a taxonomy of independent variables which affect human performance. This taxonomy was developed in a three-step process: review existing taxonomies; add independent variables used in Human; and remove redundancy and ambiguity. This process and the resultant taxonomy are described in this paper.   (Author)

6 ON SPECIAL SUBJECTS CS & T

62 On CS & T in the Energy and Matter Area 2

See also 3/4-300

3/4-422   6265; 242
Mishchenko,G.L.; Il'ina-Sidorova,A.Ya., Uskov,A.A.: The feasibility of automatic specification of paradigmatic relations in an organic reaction thesaurus. Orig. ru.
Nauch.-tekhn.inform., Ser.2, No 7, 1989. p.20-22, 9 refs.
The possibility of an automated establishment of paradigmatic relations in an organic reaction thesaurus using a formalized IR language is considered. Three languages of structural information on organic reactions were compared, the language of changing types of bonds was selected. Principles for establishing paradigmatic relations in the thesaurus are formulated based on an analysis of 700 organic reaction descriptions.

3/4-423   626
Attias, R.; Dubois, J.-E.: Substructure systems: Concepts and classifications. Orig. en.
J.Chem.Inform.Comput.Sci. Vol 30, No 1, 1990. p.2-7, 44 refs.
The main approaches to substructure systems are reviewed in the light of various classifications, allowing representation of the same entity from different standpoints. A generic model, an extension of the graph-specific structure, provides a basic model which unifies structure and substructure and yields a formal tool for representation and evaluation.

3/4-424   629
Timotin, A.; Ghetaru, S.: The rational thesaurus of the terms included in the International Electrotechnical Commission's publications. Orig.ro, en. Probl.Inform.Doc., Bucuresti Vol 23, No 3, 1989. p.106-124
In the rational thesaurus of terms contained in IEC publications, developed jointly by the Electrotechnical Research Institute and the Bucharest Polytechnic, each term entry is accompanied by synonymous, associated and subordinated terms. As the thesaurus specifies a variety of hierarchic relations, it contains more information than a dictionary and facilitates the incorporation of a concept into a structured body of knowledge.   (Author, abbr.and amended)

63 On CS & T in the Cosmos and Earth Area 3

3/4-425   6392.232
Vera, J.A.: Design criteria for the Decimal Classification of revers of the hydro database at the Centro de Estudios Hidrograficos. Orig. es.
Ing.Civ., No 70, 1989. p.67-70, 73-74, 3 refs.

64 On CS & T in the Bio Area 4

3/4-426   649
Lavieter, L.de: Towards a general thesaurus for environment.
Orig.nl. Open Vol 22, No 2, 1990. p.49-51, 4 refs.

3/4-427   649
Andreeva,E.V.; Ryzhikh, E.P.: A classification of enviromental
situation knowledge: a design approach and structure. Orig.ru.
Nauch.-tekhn.inform.,Ser.1, No 10, 1989. p.16-20, 7 refs.

3/4-428   649
Nadezhina, M.E.: Specific features of a descriptor dictionary
on environmental protection. Orig.ru.
Nauch.-tekhn.inform.,Ser.2 Vol 2, No 5, 1989. p.18-19, 1 ref.

65 On CS & T in the Human Area 5

3/4-429   651/4.213
Loginov,B.R.; V'yugin, V.V.: Automation technology for the in-
troduction of a bilingual thesaurus in medicine and health
care using a microcomputer. Orig. ru.
Nauch.-tekhn.inform.,Ser.2, No 4, 1989. p.14-16, 3 refs.

3/4-430   656
Elizarov,A.A; Brusnichkin,V.M.: Educational databank lingware.
Orig.ru. In: Ped.informat.: bank ped.dannykh.Komp'yuteriz.o-
buch. Moskva, SU 1988. p.12-16

3/4-431   656.172
Thomas,A.R.: Terminological problems: occurrence, causes, con-
sequences, and solutions in guidance, counselling and associa-
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ing for corporate and industrial data. Two four-digit vers-ions
of the SIC coding scheme are used on business databases avail-
able through DIALOG. Some Dialog database producers have opted
to create a variation of the codes for use in their products.
With the impending eight-digit SIC coding scheme from Dun and
Bradstreet, it will become increasingly difficult for the Dia-
log searcher to know which version of the codes to use when
searching a particular database. A survey of the use of SIC
codes in business databases on Dialog was undertaken. The pa-
per presents the findings of this survey.   (Author)

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system (called MAGE) at this library, and particularly with
the review of authorities for Bahá'i subject headings, this
classification has been further modified. The experience pro-
vides an interesting example of how the process of computeri-
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777   Country and Language-oriented Terminology Work
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79 Problems of Multilingual Systems

      See also 3/4-166, -195, -196, -207, -222, -224, -225, -227, -500

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8 APPLIED CLASSING AND INDEXING (C & I)

81 General Problems of Applied C & I

812   Alph.& Classified Subject Catalogs
      See also 3/4-035, -036, -080, -088

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814 <u>Manuals, Rules, and Codes for Subject Cataloguing</u>
    See also 3/4-143

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Unteregger-Vaerst, A.: <u>Die "Reine Lehre" der RSWK: Besuch in</u>
<u>den SWD-Redaktionen Augsburg und München.</u> (The "pure lesson"
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<u>tion im Schlagwortkatalog.</u> (RSWK: save yourself, or Revolution
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Simpkins, J.: <u>How the publishers want it to look.</u> Orig. en.
Indexer Vol 17, No 1, 1990. p.41-42, 2 refs.
"It" is the index to a book commissioned to an indexer. A num-
ber of publishers have been asked for the specifications re-
garding an index to their books. The result of this investiga-
tion is presented here, distinguishing between 11 areas of ge-
neral unanimity of requirement and 33 more specific instruct-
ions of 8 publishers.

3/4-534   818
Aczel,E.: <u>The national library's Aleph subject heading catalog</u>
Orig.he. ISLIC Bull. Vol 16, No 2, 1988. p.46-49

82 Data C & I

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tion, Industries and Innovation: <u>Demonstrationsprogramm Werk-</u>
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databases 1988-1989) Orig. de. Luxembourg, LU 1989. 41p.
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List of Information Sources (DOMIS). Tables show the different
application fields, problems, materials properties and kinds
of materials.

84 C & I of Primary Literature (Except 85)

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<u>schaftlichen Dissertationen an der Universitätsbibliothek der</u>
<u>FU.</u> (Subject analysis of medical and natural-science disserta-
tions at the university library of the Free University Berlin)
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M.: <u>Analysis of patent information: Trends in housing plan.</u>
Orig.ja. Joho hanri (J.Inform.Process.& Manag.) Vol 32, No 7,
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Sluckin, A.A.; Maršak, N.A., Borisova,I.N., Lukanin,V.A.: <u>More</u>
<u>effective retrieval of patent letters according to bibliogra-</u>
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<u>blications in Western languages.</u> Orig. ch.
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85 Book Indexing
    See 3/4-558

86 C & I of Secondary Literature

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<u>phic tools in the USSR: Present state and tasks.</u> Orig.ru.
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Nikitkina, N.V.: <u>Toward the registration of subject indexes to</u>
<u>Russian journals and serials in Russia and the USSR.</u> Orig.ru.
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864 <u>Citation Indexing</u>   See also 3/4-180

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<u>of national performance in terms of numbers of scientific pu-</u>
<u>blications.</u> Orig.en. Scientometrics Vol 17, No 1-2, 1989.
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<u>cal name subject access.</u> Orig. en.
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<u>information in party bodies' computerised information systems.</u>
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broadcasting archives) Orig.de. Info 7, Baden-Baden Vol 4,
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people need to be able to classify products, services, and a
whole range of other information records which comprise sub-
ject structured data bases. Describes a classification work-
shop for a database of learning opportunities related to the
Training Access Point Project (TAP).   (Author)

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Orig.en. Sci.& Techn.Libr. 10(1989)No 1, p.3-13, 12 refs.
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language. It discusses the nature of end-users in science li-
braries, types of information needs, and methods to teach the
use of appropriate vocabulary.

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speech of librarians in their dealings with the public. If the
library patron cannot comprehend this language, the reference
transaction is impeded. This study measures students' compre-
hension of a selection of library terms that were derived from
actual reference interviews and library handouts. A multiple-
choice test was administered to a group of freshmen. "Think-
ing-aloud" or protocol analyses were also run for information
as to the reasoning processes used by the subjects. Given the
results of this testing which show that patrons misunderstand
library terms approximately half of the time, the researchers
offer librarians a continuum of solutions.   (Authors)

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log. Included were "Applied Science and Technology Index",
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3/4-565   988
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"most important" indexes: the Monthly Catalog, CIS/Annual (in-
dex and abstract volumes), the CIS Legislative Histories of
U.S.Public Laws, the Congressional Record Index, the American
Statistics Index, and the index to U.S.Government Publica-
tions. For each index there is an explanation of its organi-
zation, an example demonstrating how to find a specific docu-
ment, and an exercise in which users are asked to find a simi-
lar document by consulting the actual index.

989 Use of CS & J in Certain Institutions
     See 3/4-091, -093, -097

99 Standardization
     See 3/4-159, -506, -510, -519, -520

Personal Author Index