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**ANALYTICAL REVIEW OF SOURCES OF
INFORMATION ON ACCESS TO TECHNOLOGIES
IN THE PUBLIC DOMAIN IN SELECTED
INDUSTRIAL SECTORS (1986)**

Prepared by: Mr. R. Halas
Vienna, 1986

470

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I N T R O D U C T I O N

According to the shortcomings in Industry and Commerce the field of Information and especially Industrial Information has become one of the key factors in Economy. The Management of Industry, Commerce, Public Administration and International Organisations should be aware of the enormous impact of Information and the necessity to have the required data available in the shortest time possible.

To the five important factors of a good functioning Company

- . MANPOWER
- . TECHNOLOGY (Machines and equipment)
- . MATERIAL
- . MONEY (Economic resources)
- . MANAGEMENT

has been added the sixth factor:

- . INFORMATION

which is also the connecting part between the five others.

In order to provide Managers or Individuals with all kind of data and messages. wordl wide sources of Informations have been created over the past years. This Information sources are called "DATABASE or DATABANK".

INFORMATIONS are mainly stored as a file in a Database and the Database is occupying fields in the memory of large HOST-COMPUTERS installed around the world. This Informations are up-dated periodically (monthly, half a year, etc.), but this depends on the owner/creator of the Database and the provider/originator of the Information.

In order to establish an access to Databases it is necessary for customers to install in their company an electronic equipment such as Personal Computers (PC's) etc. As the communication link a telephone net, Datex-P and/or an international Network-Service has to be available. Further for Data-Communication a specific Software has to be used.

In the last years it has become necessary for Companies and especially for International Organisations to have access to the most important Databases providing information in all Industrial and Business areas. To meet the requirements and interests of Companies and Organisations in their specific field it has to be made possible to receive, process and transmit data/informations through available "Information Channels" at the lowest cost possible. Developing Countries are having growing needs for receiving processed Information. Processed Information means receiving - elaborating - and transmitting the required data. This gives to the customer ("End User") the security to receive the adequate and precise Information needed. Only then the User of structured/Processed Information should pay to the provider of Information the necessary price for it.

The aim of a modern effective "Information Service" is to help their customers/end users in collecting the necessary informations for:

- . Planning of Industry and Commerce
- . Establishing a new company
- . Improving the Management of a running company
(Marketing, Sales, Controlling, Pricing, etc.)

This report has been made to provide an overlook about the most important DATABASE /DATABANK established around the world, regardless if they are commercially used or in public domain. As during a years period new Databases are established and/or new

files are introduced in existing Databases the following report cannot give a complete status of all existing sources of electronic processed Informations. In the description of the known Information-Sources/Databases, originated/held by the United Nations Organisations are excluded (such as UNESCO, FAO, etc.) and also the IMPADOC-Database. The file description of the selected Databases for this report are covering the most important fields in which UNIDO (United Nations Industrial Development Organisation) is active.

D I A L O G - D A T A B A S E

The DIALOG Service charges only for the connect-time to the DIALOG Computer and there are not start up or minimum fees, but there is a charge for each item which is printed and mailed to you. According to our experience an hour connect-time including telephone charges cost about 150.- US\$. A password will be given after the DIALOG order form has been received. DIALOG offers also their own telecommunication network DIALNET for accessing DIALOG Computers. This can be done by a dial up access at Band rates 300 and 1200.

DIALOG connection is possible with Personal Computers or other Terminals. Any Personal Computer can be used virtually to communicate with DIALOG services.

The following items are necessary

1. Telephone line
2. Modern or Acoustic coupler
3. Communication Software for example DIALOGLINK especially for IBM or IBM compatible microcomputers.

Adress to contact DIALOG services:**DIALOG Europe Representative:****Learned Information / DIALOG****P.O. BOX 8****Abigton, Oxford OX 13 6EG****England****Phone : (0865) 730969****DIALOG Head Office, U.S.A.:****DIALOG Information Services, Inc.****Marketing Dept.****3460 Hillview Avenue****Palo Alto, CA 94304 U.S.A.****Telex 334499 (DIALOG)**

DIALOG is one of the completest Databases Information services.
The files are mostly updates monthly and sometimes quarterly.

E X A M P L E S :**ABI/INFORM****File 15**

Coverage : August 1971 to the prsent
File Size : 301,000 records
Updated : Weekly
Provider : Data Courier Inc., Louisville, KY
Subject : ABI/INFORM covers the following major subject aereas:

- Accounting and Auditing
- Banking
- Economics
- Computer Systems and Information Management
- Finance and Financial Management
- General Managemement

- Insurance
 - Law and Taxation
 - Management Science
 - Marketing, Advertising, and Sales Management
 - New Product Development
 - Personnel, Employee Benefits, and Labor Relations
 - Public Administration and Government
 - Real Estate
 - Telecommunication
- Time Rate : - \$/Hour 81
 \$/Minute 1.35

ADVERTISED COMPUTER TECHNOLOGIES I (ACT I) File 539

- Coverage : December 1983 to the present
- File Size : 11,000 companies (29,000 products)
- Updates : Monthly Reloads
- Provider : Data Courier Inc.,
 Louisville, KY
- Subject : ADVERTISED COMPUTER TECHNOLOGY (formerly
 COMPARE PRODUCTS) lists product information on:
- Computers
 - Mainframe/Mini/Micro
 - Business Systems
 - Personal Computers
 - Manufacturing Systems
 - Software
 - Systems/Application
 - Home, Educational
 - Trade Specific
 - Peripherals
 - Data Storage Devices
 - Monitors

- Printers, other Output Devices
- Terminals

Components

- Circuit Boards
- Controllers, Digitizers, etc.
- Keyboards

Communications Equipment

- Modems
- Protocol Convertors

Communication Networks/Systems

- Telecommunications Systems
- Local Area Networks

Other Equipment, Supplies & Services

- Furniture
- Books and Manuals
- Databases
- Conferences and Meetings
- Training, Employment

Time Rate : \$/Hour 96
\$/Minute 1.60

ADVERTISED COMPUTER TECHNOLOGIES II (ACT II) File 538

Coverage : January 1984 to the present
File Size : 250,000 records
Updates : Monthly
Provider : Data Courier Inc.,
Louisville, KY
Subject : ACT II contains advertising information from individual advertisements appearing in the 100 leading computer publications. ACT II records contain information on the product(s) being

advertised, the company placing the advertisement a description of the advertisement, and specific detail information about the as such as size, type, color, cost, etc. Records also include bibliographical information about the journal containing the advertisement. ACT II provides a way to track a competitor's advertising expenditures and analyse the competition advertising strategy. ACT II also aids in locating particular types of software, hardware and companies. Because information about new computer products often appears first in advertisements, ACT I and ACT II are timely sources of information about the computer industry.

Time Rate : \$/Hour 96
\$/Minute 1.60

AGRICOLA

File 10,110

Coverage : 1970 to the present
File Size : 2,123,000 records
Updates : Monthly
Provider : National Agricultural Library.
Beltsville, MD
Subject : AGRICOLA covers field of agriculture in its broadest sense. Some of the specific areas covered are :

- Agricultural Economics
- Agricultural Engineering
- Agricultural Environmental Impact
- Agricultural products
- Agriculture in General
- Animal Industries
- Botany
- Chemistry
- Energy in Agriculture
- Entmology
- Fertilizers

- Foods
- Forestry
- Human Nutrition
- Hydroponics
- Pesticides
- Plant Science
- Pollution
- Rural Sociology
- Soils
- Veterinary Medicine
- Water Management

Time Rate : \$/Hour 39
4/Minute .65

APTIC

File 45

Coverage : 1966 through September 1976
(with some additions through 1978)

File Size : 87,000 records

Updates : Closed file

Provider : Manpower and Technical Information Branch,
U.S. Environmental Protection Agency,
Research Triangle Park, NC

Subject : APTIC covers the field of air pollution in the broadest sense, including social, political, legal, and administrative aspects of the field. General subjects treated in this database are as follows:

- Atmospheric Interaction
- Basic Science and Technology
- Control Methods
- Economic Aspects
- Effects of Human Health
- Effects on Materials
- Effects on Plants and Livestock
- Emission Sources

- Government Participation (Legal and Administrative)
- Measurement Methods
- Pollution Data (Air Quality and Emission Inventories)
- Social Aspects and Public Involvement
- Standards and Criteria

Time Rate : \$/Hour 35
4/Minute .58

BIOSIS PREVIEWS

Files 5.55, 255

Coverage : 1970 to the present
File Size : 4,568,000 records
Updates : Twice a month
Provider : BioSciences Information Service,
Philadelphia, PA
Subject : All life science subjects are covered, including but not limited to the following:

- Aerospace Biology
- Agriculture
- Anatomy
- Bacteriology
- Behavioral Sciences
- Biochemistry
- Bioengineering
- Biophysics
- Botany
- Cell Biology
- Environmental Biology
- Experimental Medicine
- Genetics
- Immunology
- Microbiology
- Nutrition
- Parasitology
- Pathology

- Pharmacology
- Physiology
- Public Health
- Radiation Biology
- Systematic Biology
- Toxicology
- Veterinary Science
- Virology
- Zoology

Time Rate : \$/Hour 84
 \$/Minute 1.40

CHEMICAL BUSINESS NEWBASE

File 319

Coverage : October 1984 to the present

File Size : 29,000 records

Updates : Weekly

Provider : Royal Society of Chemistry
 Nottingham, England

Subject : CHEMICAL BUSINESS NEWBASE (CBNB) includes worldwide chemical news about chemicals, use, and production, with a particular emphasis on European news. Records contain in the database summarize items from journals, European press releases, company reports, advertisements, publishers lists, and other sources which are appropriate to covering chemicals business news. An informative abstract is present in each record. Bibliographic source information, as well as factual data regarding production figures, sales, etc., is available in CBNB.

Time Rate : \$/Hour 110
 Minute 1.83

CLAIMS / COMPOUND REGISTRY

File 242

Coverage : Current
File Size : 13,900 compounds
Updates : Annual reloads
Provider : IFI/Plenum Data Corp.,
Alexandria, VA
Subject : The CLAIMS / COMPOUND REGISTRY database is a dictionary of specific chemical compounds. Each record contains the IFI compound term number, main compound name, synonyms, molecular formula, and fragment codes and terms.
Time Rate : \$/Hour 95
4/Minute 1.58

COMPENDEX

File 8

Coverage : 1970 to the present
File Size : 1,485,000 records
Updates : Monthly
Provider : Engineering Information, Inc.,
New York, NY
Subject : - Aeronautical and Aerospace Engineering
- Applied Physics (High Energy, Plasma, Nuclear and Solid State)
- Bioengineering and Medical Equipment
- Chemical Engineering, Ceramics, Plastics, and Polymers, Food Technology
- Civil and Structural Engineering, Environmental Technology
- Electrical, Instrumentation, Control Engineering, Power Engineering
- Electronics, Computers, Communication
- Energy Technology and Petroleum Engineering
- Light and Optical Technology
- Marine Engineering, Naval Architecture,

Ocean and Underwater Technology

- Mechanical Engineering, Automotive Engineering and Transportation
- Mining and Metallurgical Engineering, Material Science

Time Rate : \$/Hour 108
4/Minute 1.80

CRIS / USDA**FILE 60**

Coverage : Currently active or recently completed projects
File Size : 31,000 projects
Updates : Monthly
Provider : U.S. Department of Agriculture
 Beltsville, MD
Subject : CRIS/USDA reports on a wide range of topics, including the following areas:

- Biological Sciences
- Physical Sciences
- Engineering
- Social and Behavioral Sciences
- Natural Resource Conservation
- Family Life
- Housing
- Environmental Protection
- Fish and Wildlife
- Resource Management
- Marketing and Economic
- Food and Nutrition
- Consumer Health and Safety
- Textiles and Clothing
- Rural Development
- Area and Regional Development

Time Rate : \$/Hour 40
4/Minute .67

DATABA OF DATABASES

File 230

Coverage : Varying Dates
File Size : 2.505 records
Updates : Quarterly Reloads
Provider : M.E.Williams, Inc., and University Illinois,
 Urbana, IL
Subject : The DATABASE OF DATABASES covers all types
 of databases (word-oriented, number-oriented,
 modelling), which include all subject areas.
 It is used for selcting databases for access
 or acquisition, for bibliometric analyses,
 and for studying characteristics of databases.
Time Rate : \$/Hour 48
 \$/Minute .80

DIALINDEX

File 411

Coverage : All DIALOG databases
Provider : DIALOG Information Services, Inc.
 Palo Alto, CA
Subject : DIALINDEX covers all subject areas included in
 the scope of DIALOG databases. The file is
 used to determinate the following:

- Where do I start
- Does x file have anything on this subject?
- Which file should be used first
- How broadly, or narrowly, should a search
 strategy in x file be defined for y subject?

 Any combination of DIALOG files can be specified
 for use in DIALINDEX. A selection of files in a
 similar subject area allows the user to evaluate
 the scope of each for a possible subsequent
 search.

Time Rate : \$/Hour 15
 \$/Minute .25

DOE ENERGY

Files 103, 104

Coverage : 1974 to the present
File Size : 1,579,000 records
Updates : Biweekly
Provider : U.S. Department of Energy,
 Washington, D.C.
Subject : Fossil Fuels
 Synthetic Fuels
 Renewable Energy Sources
 Nuclear Energy
 Energy Storage and Conversion
 Advanced Energy Systems
 Energy Policy
 Energy Conservation
 Chemistry
 Engineering
 Particle Accelerators
 Environmental Sciences
 Biomedical Sciences
 Physics
 Fusion Energy
 Energy-Related Materials and Instrumentation

ELECTRIC POWER DATABASE

File 241

Coverage : 1972 to the present
File Size : 16,400 records
Updates : Monthly
Provider : Electric Power Research Institut, (EPRI)-
 Palo Alto, CA
Subject : Thirteen Major subject areas which define
 energy R and D are covered:
 - Hydroelectric Power

- Fossil Fuels
- Nuclear Power
- Customers Utilization
- General R and D Support
- Transmission
- Distribution
- Economics
- Personnel
- Advanced Power Systems
- Stations and Substations
- Area Development
- Environmental Assessment

Time Rate : \$/Hour 55
 \$/Minute .92

ENVIROLINE

File 40

Coverage : 1971 to the present
 File Size : 118,000 records
 Updates : Monthly
 Provider : EIC/Intelligence, Inc.
 New York, NY

Subject : The following general subjects are covered:

- Air Pollution
- Chemical and Biology Contamination
- Energy
- Environmental Design and Urban Ecology
- Environmental Education
- Foods and Drugs
- General Environmental Topics
- International Environmental Topics
- Land User and Misuse
- Noise Pollution
- Non-Renewable Resources
- Ocean and Estatuaries
- Population Planning and Control
- Radiological Contamination

- Renewable Resources-Terrestrial
- Renewable Resources-Water
- Solid Waste
- Transportation
- Water Pollution
- Weather Modification/Geophysical Change
- Wildlife

Time Rate : \$/Hour 95
 \$/Minute 1.58

ENERGYLINE

File 69

Coverage : 1971 to the present
 File Size : 58,000 records
 Updates : Monthly
 Provider : EIC/Intelligence, Inc.,
 New York, NY

Subject : ENERGYLINE reports on a wide range of topics,
 including the following areas:

- Economics
- Policy and Planning
- Research and Development
- Resources and Reserves
- Unconventional Resources
- Solar Energy
- Fuel Processing and Transport
- Electric Power Generations
- Nuclear Resources and Power
- Thermonuclear Power
- Consumption and Conservation
- Environmental Impact

Time Rate : \$/Hour 95
 \$/Minute 1.58

Coverage : 1977 to the present
File Size : 10,983 records
Updates : Quarterly reloads
Provider : FIND/SVP
 New York, NY
Subject : The reports in FIND/SVP REPORTS AND STUDIES INDEX
 cover 55 major subject areas broadly defined
 within the following categories:
 - Basic Industries (Rubber, Metals, Mineral/
 Glass, Forestry/Paper, Agriculture, Oceano-
 graphy, Fibers/Textiles)
 - Business/Finance
 - Chemicals/Plastics
 - Computers/Electronics
 - Construction/Machinery
 - Consumer Durable (Appliances, Home Furnishing,
 Apparel; Leisure Equipment)
 - Consumer Nondurables (Food, Beverages, House-
 hold Products, Cosmetics)
 - Defense/Security Systems
 - Energy
 - Healthcare
 - Media
 - Retailing/Consumer Service
Time/Rate : \$/Hour 78
 \$/Minute 1.30

FLUIDEX

File 96

Coverage : 1974 to the present
File Size : 168,000 records
Updates : Monthly
Providers : BHRA, The Fluid Engineering Center,
 Bedford, United Kingdom
Subject : Coverage includes all aspects of fluid engi-
 neering:

- Aerodynamics, Metereology, Wind Energy
- Noise
- Coastal and Inland Fluid Engineering Works;
Offshore Technology
- Multiphase Flow
- Mixing
- Measurement and Instrumentation
- Oilhydraulics (Fluid Power)
- Fluidics
- High Pressure Technology - Jet Cutting
- Computational Fluid Mechanics;
Mathematic Modelling
- Fluid Sealing
- Materials - Properties, Corrosion
- Process Engineering (except mixing)
- Heat Exchange
- Dredging, Mining
- Oceanography
- Pumps, Compressors, Hydraulic Turbines,
Pipelines, Pipes and Fittings, Storage
Vessels
- Fluid Mecharics in General
- Tribology
- Rheology
- Energy Extraction, Storage and Conversion

Time Rate : \$/Hour 69
\$/Minute 1.15

FOODS ADLIBRA

File 79

Coverage : 1974 to the present
File Size : 106,000 records
Updates : Monthly
Providers : General Mills, Foods Adlibra Publications,
Minneapolis, MN
Subject : The FOODS ADLIBRA databases covers :

- New Products
- New Ingredient Developments
- Management and Marketing News
- World Food Economics and International Marketing
- Commodities
- Marketing Statistics and Market Research
- Biotechnology
- Nutritional Information and Technology
- Research and Technology
- Processing and Engineering Methods
- Patents
- Packaging Developments
- Governmental Information
- Company and Association News Announcements
- Aseptic Packaging and Processing

Time Rate : \$/Hour 63
 \$/Minute 1.05

FOREIGN TRADE & ECON ABSTRACTS

File 90

Coverage : 1974 to the present
 File Size : 166,000 records
 Updates : Monthly
 Providers : Netherlands Foreign Trade Agency,
 The Hague, The Netherlands
 Subject : FOREIGN TRADE & ECON ABSTRACTS covers the
 following subject areas:

- Economic Theory
- Labour
- Trade
- Economic Development
- Finance
- Industries
- Public Administration
- Markets
- Finance and Corporate Structure

- Management
- Advertising
- Policy
- Investments Climates
- Import Regulations

Time Rate : \$/Hour 78
\$/Minute 1.30

HEILBRON

File 303

Coverage : Current

File Size : 75,000 entries covering more than 175,000 chemical substances

Updates : Semiannually

Provider : Chapman & Hall Ltd.,
London, England

Subject : HEILBRON represents the complete text of two major chemical dictionaries from Chapman & Hall Ltd.: Dictionary of Organic Compounds (Fifth Edition), and Dictionary of Organometallic Compounds. HEILBRON is a source database of chemical identification, physical-chemical properties, use, hazard, and key reference data to the world's more important chemical substances, as selected by a panel of experts. HEILBRON provides chemical substance identification through searching physical and/or chemical properties, compound variants, derivative names, synonyms, CAS Registry numbers, molecular formulae and molecular weight, source statements, use/importance data, melting point, freezing point, boiling point, solubility, relative density, optical rotation, and dissociation constants.

Time Rate : \$/Hour 95
\$/Minute 1.58

INDUSTRY DATA SOURCES

File 189

Coverage : 1979 to the present
File Size : 111,000 records
Updates : Monthly
Provider : Information Access Company,
Belmont, CA
Subject : The following are among the categories of industries and products included in INDUSTRY DATA SOURCES.

- Agriculture
- Apparel
- Banking
- Chemicals
- Communications and Communications Equipment
- Computers
- Construction and Construction Materials
- Electrical and Electronic Equipment
- Energy Sources and Utilities
- Food and Beverages
- Insurance
- Machinery and Machine Tools
- Mines and Mineral Resources
- Printing and Publishing
- Retail and Wholesale Trade
- Transportation

Time Rate : \$/Hour 75
\$/Minute 1.25

INFORMATION SCIENCE ABSTRACTS

File 202

Coverage : 1966 to the present
File Size : 88,000 records
Updates : Bimonthly
Provider : IFI/Plenum Data Company,

Alexandria, VA

Subject : **Subjects indexed include :**

- Abstracting and Indexing
- Cataloging, Classification and Coding
- Computer Science
- Copyright
- Education
- Information Management
- Information System Design
- Information Theory
- Library Administration
- Microform Technology
- Online Information Retrieval
- Publishing
- Technical Writing
- Telecommunications
- Translation

Time Rate : \$/Hour 70
\$/Minute 1.17

INTERNATIONAL PHARMACEUTICAL ABSTRACTS

File 74

Coverage : 1970 to the present

File Size : 111,000 records

Updates : Monthly

Provider : American Society of Hospital Pharmacists,
Bethesda, MD

Subject : INTERNATINNAL PHARMACEUTICAL ABSTRACTS reports
on a wide range of topics, including such areas
as the following:

- Pharmaceutical
- Institutional Pharmacy Practice
- Adverse Drug Reactions
- Toxicity
- Investigational Drugs
- Drug Evaluations
- Drug Interactions

- Biopharmaceutics
- Pharmaceutics
- Drug Stability
- Pharmacology
- Pharmaceutical Chemistry
- Drug Analysis
- Drug Metabolism and Body Distribution
- Pharmacognosy
- Methodology and Drug Testing
- Legislation, Laws, and Regulations
- History
- Sociology, Economics and Ethics
- Pharmacy Practice
- Information Processing and Literature

Time Rate : \$/Hour 69
 \$/Minute 1.15

ISMEC

File 14

Coverage : 1973 to the present
 File Size : 180,000 records
 Updates : Monthly
 Provider : Cambridge Scientific Abstracts,
 Bethesda, MD
 Subject : The principal subject areas of mechanical engineering covered by the ISMEC database are :

- Engineering Management
- Energy and Power
- Industrial Process Engineering
- Measurement and Control
- Mechanics and Materials
- Computer Applications
- Production and Manufacturing
- Production Process
- Transport and Handling

Time Rate : \$/Hour 84

\$/Minute 1.40

MICROCOMPUTER INDEX

File 233

Coverage : 1981 to the present
File Size : 37,481 records
Updates : Quarterly
Provider : Databases Services,
Los Altos, CA
Subject : MICROCOMPUTER INDEX provides broad coverage of
the subject, including the following

- Hardware Reviews
- Software Reviews
- Book Reviews
- New Products
- Education (all levels)
- Business Application
- Interfaces
- Videotex
- Games
- Hardware Construction
- Word Processing
- Specific Microcomputers
(Apple, TRS-80, PET, Atari, etc.)
- Programming Instruction
- Programming Language
- Graphics
- Mathematics
- Utility Programs

Time Rate : \$/Hour 45
\$/Minute .75

MIDEAST FILE**File 249**

Coverage : 1979 to the present
File Size : 45,500 records
Updates : Monthly
Provider : Learned Information Ltd.,
Abigdon, Oxford, England and
the Shiloah Centre for Middle Eastern and
African Studies
Tel Aviv, Israel

Subject : MIDEAST FILE covers the following topics:

- Anthropology
- Commerce
- Defense
- Economics
- Education
- Foreign Trade
- Geography
- History
- Islam
- Law
- Literature
- Marketing
- Oil
- Politics
- Population
- Psychology
- Science and Technology
- Sociology

Time Rate : \$/Hour 75
\$/Minute 1.25

NONFERROUS METALS ABSTRACTS**File 118**

Coverage : 1961 through 1983
File Size : 121,000 records
Updates : Closed File

Provider : British Non Ferrous Metals Technology Centre,
Wantage, Oxfordshire, England

Subject : NONFERROUS METALS ABSTRACTS covers information
related to nonferrous metals in the following
subject areas:

- Physical and Mechanical Properties of Non-ferrous metals
- Structure of Nonferrous Metals
- Metals Finishing
- Corrosion and Oxidation
- Extracting and Refining
- Melting and Casting
- Heat Treatment
- Industrial Processing
- Analysis and Testing
- Rolling
- Machining
- Extrusion
- Coating and Finishing
- Environmental Aspects
- Reclamation
- Drawing
- Powder Metallurgy
- Economics and Marketing

Time Rate : \$/Hour 45
\$/Minute .75

ONTAP CHEMNAME

File 231

Coverage : September 1 through December 5, 1977

File Size : 99,122 records

Updates : Not applicable - special file

Provider : Chemical Abstracts Service and
DIALOG Information Services, Inc.

Subject : The literature of chemistry and its applications
is divided into the following principal areas:

- Applied Chemistry

- Biochemistry and Biology.
- Chemical Engineering
- Class of Substances
- Macromolecular Chemistry
- Organic and Inorganic Chemistry
- Physical and Analytical Chemistry
- Properties and Reactions

Time Rate : \$/Hour 15
\$/Minute .25

ONTAP BIOSIS PREVIEWS

File 205

Coverage : From the first 1980 update to File 5,
BIOSIS PREVIEWS

File Size : 24,167 records

Updates : Not applicable - special file

Provider : BioSciences Information Services and
DIALOG Information Services, Inc.

Subject : All life sciences are covered, including but not
limited to the following:

- Aerospace Biology
- Agriculture
- Anatomy
- Bacteriology
- Behavioral Sciences
- Biochemistry
- Bioengineering
- Biophysics
- Botanic
- Cell Biology
- Environmental Biology
- Experimental Medicine
- Genetics
- Immunology
- Microbiology
- Nutrition
- Parasitology

- Pathology
- Pharmacology
- Physiology
- Public Health
- Radiation Biology
- Systematic Biology
- Toxicology
- Veterinary Science
- Virology
- Zoology

Time Rate : \$/Hour 15
 \$/Minute .25

ONTAP COMPENDEX

File 208

Coverage : January through March 1985
 File Size : 24,273 records
 Updates : Not applicable - special file
 Provider : Engineering Information, Inc. and
 DIALOG Information Services, Inc.
 Subject : The subject of coverage on the ONTAP COMPENDEX
 database is the same as for COMPENDEX file :
 - Civil, Environmental, Geological, and
 Biological Engineering
 - Electrical, Electronics, and Control Engi-
 neering
 - Chemical, Agricultural, and Food Engineering
 - Mining, Metals, and Fuel Engineering
 - Mechanical, Automotive, Nuclear, and Aero-
 space Engineering
 - Industrial and Management Application

Time Rate : \$/Hour 15
 4/Minute .25

PACKAGING SCIENCE AND TECHNOLOGY ABSTRACTS.

File 252

Coverage : 1982 to the present
File Size : 10,500 records
Updates : Monthly
Provider : International Food Information Service,
 Frankfurt am Main, Federal Republic of Germany
Subject : PACKAGING SCIENCE AND TECHNOLOGY ABSTRACTS
 provides access to research and development
 literature in all aspects of packaging science,
 including materials, equipment, packs, trans-
 port, storage, and testing. PSTA provides
 indexing to over 400 journals, as well as
 books, reports, pamphlets, conference procee-
 ding, standards, specifications, patents,
 and legislation.
Time Rate : \$/Hour 69
 \$/Minute 1.15

PAPERCHEM

Files 240, 840

Coverage : July 1967 to the present
File Size : 220,000 records
Updates : Monthly
Provider : Institute of Paper Chemistry,
 Appleton, WI
Subject : PAPERCHEM covers virtually every topic related
 to the pulp and paper industry. Typical subjects
 covered are:

- Pulp, Paper and Board
- Packaging
- Engineering and Process Control
- Finishing and Converting
- Gluing, Labeling, and Sealing
- Films, Foils, and Laminates
- Fiber Webs and Nonwovens
- Forestry and Pulpwood

- Spent Liquors and Pollution Control
- Silvichemicals and Residues
- Mill Construction and Operation
- Machinery Equipment and Maintenance
- Graphic Arts
- Corrosion
- Economic and Research
- Tissue Culture

Time Rate : \$/Hour 63
 \$/Minute 11.05

P/E NEWS

File 257

Coverage : 1975 to the present
 File Size : 379,000 records
 Updates : Weekly
 Provider : Central Abstracting and Indexing Service,
 American Petroleum Institute,
 New York, NY

Subject : The subject coverage of P/E NEWS includes the
 following general areas:

- Environment
- Exploration
- Government Regulations and Legislation
- Labor
- Marketing
- Public Affairs
- Statistic
- Supply and Demand
- Synfuels
- Taxation
- Trends

Time Rate : \$/Hour 96
 /Minute 1.60

PHARMACEUTICAL NEWS INDEX

File 42

Coverage : December 1985 to the present
File Size : 162,000 records
Updates : Monthly
Provider : Data Courier Inc.,
 Louisville, KY
Subject : PNI coverage includes the following subjects:
 - Drug and Cosmetic Industry Management News
 - FDA (Food and Drug Administration) Recalls
 - Health Legislation
 - Government Relations
 - Industry Financial News and Reports
 - NDA (New Drug Application) Approvals
 - Pharmaceutical Research
Time Rate : \$/Hour 126
 \$/Minute 2.10

SCISEARCH

Files 34, 87, 94, 186

Coverage : 1974 to the present
File Size : 6,643,000 records
Updates : Biweekly
Provider : Institute for Scientific Information,
 Philadelphia, PA
Subject : SCISEARCH covers virtually every area within
 the broad field of science and technology,
 including but not limited to the following:
 - Agriculture and Food Technology
 - Astronomy and Astrophysics
 - Behavioral Sciences
 - Biochemistry
 - Biology
 - Biomedical Sciences
 - Chemistry
 - Computer Applications and Cybernetics
 - Earth Sciences

- Electronics
- Engineering
- Environmental Science
- Genetics
- Information Science
- Instrumentation
- Materials Science
- Mathematics
- Medicine
- Meteorology
- Microbiology
- Nuclear Science
- Pharmacology
- Physics
- Psychiatry and Psychology
- Veterinary Medicine
- Zoology

Time Rate : \$/Hour 159
 \$/Minute 2.65

SOVIET SCIENCE AND TECHNOLOGY

File 270

Coverage : 1975 to the present
 File Size : 104.500 records
 Updates : Monthly
 Provider : IFI/Plenum Data Corporation,
 Alexandria, VA
 Subject : Records in SOVIET SCIENCE AND TECHNOLOGY
 include but are not limited to the following
 subjects:

- Aerospace
- Aeronautics
- Communications
- Computer Technology
- Cybernetics
- Earth Science
- Energy Use and Conservation

- Environmental Sciences
- Fuels and Petroleum Products
- Geosciences
- Metallurgy
- Meteorology
- Pollution Abatement and Control
- Robotics
- Solar Energy

Time Rate : \$/Hour 65
 \$/Minute 1.08

STANDARDS AND SPECIFICATIONS

File 113

Coverage : 1950 to the present
 File Size : 112,500 records
 Updates : Monthly
 Provider : National Standards Association, Inc.,
 Bethesda, MD
 Subject : STANDARDS & SPECIFICATION contains titles and
 descriptive information for :

- All 39,300 U.S. Military (DOD) standards, specifications, military sheet form standards (MS"s), Air Force-Navy Aeronautical Standards (AN"s), Qualified Product Lists (QPL"s), Handbooks, including 1400 NATO and related standards.
- All 5,100 U.S. Federal (GSA) standards, specifications, commercial item descriptions (CID"s) and QPL"s.
- All 27,300 U.S. standards developed by 432 private sector organizations such as the American Society for Testing and Materials, Society of Automotive Engineers, Aerospace Industries Association, American National Standard Institute, Underwriters Laboratories, etc.

Time Rate : \$/Hour 65
 \$/Minute 1.08

TELEGEN

File 238

Coverage : 1973 to the present
File Size : 16,000 records
Updates : Monthly
Provider : EIC/Intelligence, Inc.,
New York, NY
Subject : The subject coverage of TELEGEN includes the following topics:
- Business and Economics
- Patents and Legal Issues
- Industrial Microbiology
- Energy and Mining Application
- Environmental Application
- Crop Application
- Pharmaceutical Application
- Research on Human, Animal, Plant, Yeast, Fungus, Bacterial, and Viral Genes.
- Social Impacts
- Policy and Regulatory Issues
- Chemical Applications
- Biohazards
- Food Processing and Production
- Livestock Applications
- Medical Applications
Time Rate : \$/Hour 108
\$/Minute 1.80

WATERNET

File 245

Coverage : 1971 to the present
File Size : 13,450 records
Updates : Quarterly
Provider : American Water Works Association,

Subject : **Denver, CO**
 - Drinking Water Industry
 - Water Reuse & Wastewater Reuse
 - Industrial Water Use
 - Water Renovation and Recycling
 - Toxicological and Medical Related Data
 - Health Effects and Environmental Problems
 - Water Rates and Water Conservation
 - Financing, Management, and Administration
 - Automated Process Control
 - Water Quality and Treatment
 - Law and Water
 - Water Pollution
 - Water Resources
 - Energy Costs and Treated Water
 - Training Materials
 - History of Water Supply
Time Rate : \$/Hour 80
 \$/Minute 1.33

WELDASEARCH

File 99

Coverage : 1967 to the present
File Size : 85,500 records
Updates : Monthly
Provider : The Welding Institute,
 Cambridge, England
Subject : All aspects of the welding and joining of
 metals and plastics are included; in particular,
 the following topics:

- Welding
- Brazing
- Soldering
- Thermal Cutting
- Metal Spraying
- Design of Welded Structures
- Fatigue of Welds

- Brittle Fracture
- Welding and Joining Equipment
- Corrosion
- Welded Construction
- Quality Control
- Nondestructive Testing
- Pipelines
- Pressure Vessels
- Offshore Structures

Time Rate : \$/Hour 84
 \$/Minute 1.40

WORLD AFFAIRS REPORT

File 167

Coverage : 1970 to the present
File Size : 29,500 records
Updates : Monthly
Provider : California Institute of International Studies,
 Stanford, CA
Subject : The Soviet point of view on the following and
 other aspects of world affairs is presented and
 evaluated:
 - Culture
 - Détente
 - Disarmament
 - Education
 - Energy
 - Human Rights
 - Ideological Warfare
 - International Communist Movement
 - NATO
 - Outer Space
 - Raw Materials
 - Religion
 - Science
 - World Trade
Time Rate : \$/Hour 90

\$/Minute 1.50

WORLD ALUMINIUM ABSTRACTS

File 33

Coverage : 1968 to the present
File Size : 112,500 records
Updates : Monthly
Provider : American Society for Metals,
 Metals Park, OH
Subject : All aspects of the aluminium industry,
 aside from mining, are covered, including
 the following major subject areas:
 - Aluminium Industry - General
 - Ores, Extraction of Alumina and Aluminium
 - Melting, Casting, and Foundry
 - Physical and Mechanical Metallurgy
 - Metalworking, Fabrication, Finishing
 - Engineering, Properties and Tests
 - Quality Control and Tests
 - End Uses
Time Rate : \$/Hour 72
 \$/Minute 1.20

WORLD PATENTS INDEX

Files 350, 351

Coverage : 1963 to the present
File Size : 3,500,000 records
Updates : Weekly (File 351), Monthly (File 350)
Provider : Dewent Publications, Ltd.,
 London, England
Subject : WORLD PATENTS INDEX files cover all patentable
 technology classified under the following cate-
 gories:
 CHEMICAL
 - Polymers, Plastics

- Pharmaceuticals
- Agricultural Chemicals
- Foods, Disinfectants, Detergents
- General Chemicals
- Textiles, Paper, Cellulose
- Printing, Coating, Photographic
- Petroleum
- Chemical Engineering
- Nucleonics, Explosives, Protection
- Glass, Refractories, Electrochemistry
- Metallurgy

GENERAL

- Agriculture, Tobacco
- Personal, Domestic
- Health, Amusement
- Separating, Mixing
- Shaping Metal
- Shaping Non-Metal
- Pressing, Printing
- Optics, Photography, Gener

MECHANICAL

- Vehicles in General
- Special Vehicles
- Conveying, Packaging, Storing
- Buildings, Construction
- Engines, Pumps
- Engineering Elements
- Lighting, Heating

ELECTRICAL

- Instrumentation, Measuring, Testing
- Computing and Control
- Semiconductors, Electronic Circuitry
- Electronic Components
- Communications
- Engineering Elements
- Electric Power Engineering

Time Rate : \$/Hour from 115 to 175
\$/Minute from 1.92 to 2.95

WORLD TEXTILES

File 67

Coverage : 1970 to the present
File Size : 134,500 records
Updates : Monthly
Provider : Shirley Institute,
Manchester, England
Subject : WORLD TEXTILES covers a wide range of textile-
relevant subject matter :
- Synthesis, Physics, and Chemistry of Polymers
for Fibers
- Science, Technology, Properties, Products,
and Utilization of Fibers, Yarns, and Fabrics
- Chemical and Mechanical Treatment of Textiles
- Technical Management and Economics of Produc-
tion Processes
- Production, Consumption, and International
Trade Data
- Test Methods, Quality Control, Specifications,
Standards, and Legislation
- Pollution, Safety, and Health Hazards
- Utilization of Textiles in Industrial, Medic-
al, and Other Applications
- Directory Listings for the Textile and Related
Industries

Time Rate : \$/Hour 55
\$/Minute .92

E C H O D A T A B A S E - S E R V I C E

ECHO European Commission Host Organisation

Customer Service:

177, Route d'Esch

L-1471 Luxembourg Tel.:(+352) 48 80 41 - Telex: 2181

Connection with this Database can be made with an modem/acoustic coupler set on 300 or 1200 baud, through a simple telefon line. The terminal has to be set to "FULL DUPLEX".With the registration you get your password, the user identification called NUI (Network User Identifier = your PTT password),and also the NAU (Network User Adress - E C H O D A T A B A S E).

ECHO Database contains:

. GRIPS/DIRS 3

incorporating CCL (Common Command Language)

. DIANE GUIDE

gives detailed information on databases and databanks, their producers and the hosts offering them within DIANE (Direct Information Access Network for Europe).

The DIANE GUIDE is composed of three segments:

- . Database
- . Organisation
- . Implementation

and in addition a subject index thesaurus in four languages is implemented (English, French, German, Italian).

More detailed description, see below.

. DUNIS

is the database version of the Directory of United Nations Information System compiled by the Inter-Organization Board for Information Systems (I.O.B.) of the United Nations. The present database includes descriptions of 233 UN Information Services (IS) and 102 computerized databases/banks (DB).

. EABS

The database contains references to the published results of scientific and technical research programmes of the European Communities.

The principal fields covered are:

- . Nuclear research
- . New sources of energy
- . Environmental research
- . Medical and biological research
- . Agricultural research
- . Coal and steel technology research.

. ENDOC

Is a computer based directory of Environmental and Documentation centres in the European Community and their provided services.

. ENREP

Is a computer based permanent inventory of Environmental Research Projects of the European Community.

. TED

(Tenders Electronic Daily) is the online version of the supplement S of the Official Journal of the E.C. and contains all invitations to tender published.

. TERMINALS

Is a part of a User support service in order to give users of Euronet DIANE informations on Euronet compatible terminals.

. EURODICAUTOM

It contains currently about 300 000 scientific and technical terms, contextual phrases and definitions. In addition it offers currently over 70 000 accronyms and abbreviations. It is established to satisfy the regular needs of the translations services.

D I A N E G U I D E

European Information Market

Development Group

EurOnet DIANE

117, route d'Esch

L - 1471 Luxembourg

Tel.: (+352) 48 80 41

Télex: 2181

This Online Database-Guide is accessible for public, without a contract with ECHO, and free of charge. Communication is made through a modem or Datex-P. Only the NUA and a Password (DIANED) is necessary.

(AEROSPACE DAILY) AEROSPACE DAILY

Covers all aspects of Aerospace Industry with informations from all over the world.

ESA-IRS

(AEROSPACE GLOSSARY) AEROSPACE GLOSSARY

Glossary of specialized terminology of the Aerospace Industry.

ESA-IRS

(ALIS) AUTOMATED LIBRARY INFORMATION SYSTEM

Database information from the Automated Library service of the Danish Technological Library.

DATACENTRALEN

(ARIANE) ARRANGEMENT RETICULE DES INFORMATIONS POUR L'APPROCHE DES NOTIONS PAR LEUR ENVIRONNEMENT.

This Databank exists since 1972: recolects essential information for the building constructors (engineers, specialists, architects etc.).

ITBTP - CATED

(BBUS) BIOBUSINESS DATABASE

Contains important information for scientific development in the field of: Agriculture, pharmacy, food supplies, biotechnology and genetic engineering.

DATA STAR

BG-VDMA

The subjects are: Producers of machines, equipment and installations, also accessories for machine- and plant building industry.

FIZ TECHNIK

(BISE) INFORMATION POUR L'ANALYSE SECTORIELLE (CRONOS)

Quarterly information about the production & trade (export) among the Common Market membercountries. The main fields are: textiles, clothing, shoes, paper, household equipment, etc.

CISI - DATACENTRALEN

(BNF) BRITISH NON - FERROUS ABSTRACTS

BNF - "Online version" . Information for metallurgical engineers

scientists for: extraction, rolling, melting and casting, metal-finishing, corrosion and economy.

ESA-IRS

(CABS) CURRENT AWARENESS IN BIOLOGICAL SCIENCE

Provides very important information for scientists, managers and teachers in biology.

PERGAMON INFOLINE

(CANOM) CHEMICAL ABSTRACTS NOMENCLATURE

Non-bibliographical index of specific chemical terminology for chemicals, mentioned in this abstracts.

QUESTEL

(CEAB) CHEMICAL ENGINEERING ABSTRACTS

Comprehend theoretical and practical topics, in all fields of chemical technology in connection with mechanical, civil, electrical and instrumental technology.

PERGAMON INFOLINE, DATA STAR, ESA - IRS

(CELL) ABSTRACTS IN BIOCOMMERCE

Important administrative information in Bio-technology, Biology and Bio-economy.

DATA-STAR

CERAMICS ABSTRACTS

Ceramics

PERGAMON INFOLINE

(CESA) CESA GACI

Estimations (predictions) and retrospective comparative analysis in energy, research and society.

CISI

(CHEMLINE) CHEMICAL DICTIONARY ON LINE

Dictionary of chemical substances, with CAS index numbers in TOXLINE. Search possibilities after: synonyms, molecular formulas, Mesh, Wiswesser-Line-Notation, etc.

BLAISE - LINE, DIMDI

(CHI) CHEMICAL HAZARDS IN INDUSTRY

Contains security regulations, hazard classification, security procedures, pollution, explosion, fire accidents in chemical industries and other related areas.

PERGAMON INFOLINE

(CIN) INTERCIN

Water adhesives (cement, plaster, lime)

QUESTEL

(CLRP) COAL RESEARCH PROJECTS

Coal scientific and technological research projects.

BELIN

(CMPT) COMPUTER DATABASE OF MANAGEMENT CONTENTS

Contains all technical, industrial and commercial aspects in informatics.

DATA STAR

(CNAM) CHEMICAL NOMENCLATURE

Contains chemical information, structure and nomenclature.

DATA STAR

(COAL) COAL DATA BASE

Comprehends coal industry, reserves and exploration, conveyance, transport and handling, characteristics, manufacturing, combustion, waste control, environmental aspects.

BELINDIS; INKA

(COMPAT) COMPUTERPAT

Contains short descriptions about all US-patent documentation, who were registered in the patent Ministry since 1942 in the class 364/200 and 364/900.

PERGAMON INFOLINE

(CORP) CORPORATE AUTHORITIES

Unions and Federations in the following areas: energy, nuclear science, aerospace, space research, physics, mathematics and astronomy.

INKA

(CIP) CONFERENCE PAPERS INDEX

Most recently scientific research results and conferences on technical and scientific conferences all over the world. A big part of this material appears one year and sometimes earlier before it is published somewhere else.

ESA-IRS

(CROSS) CROSS DIRECTORY FILE

Data-base directory of Data-Star, contains the inventory data-base of all Databases.

DATA STAR

(CRU) THE CRU MINE, SMELTER AND REFFINERY DATABANK

Datasfor metals, compiled by an international consulting firm for non-ferreous metals. Gives statistics and indexes in the different activities of the manufacturing industries and in the consumption field..

ADP

DARC PLURIDATA

Contains information of chemistry/spectroscopy in two catalogues:

1. NMR - Databank;
2. Dataset for masspectometry.

ARDIC-CIDA

(DECHEMA) DECHEMA CHEMICAL ENGINEERING ABSTRACTS DATA BANK
Chemistry technology, chemical engineering.
FIZ TECHNIK, INKA

(DETERM-SDR) DECHEMA THERMOPHYSICAL PROPERTY DATA BANK -
DATA RETRIEVAL SYSTEM
Dechema Database about the thermophysical characteristics
(matter - data).
INKA

(DIANEGUIDE) DIANE GUIDE DATABASE
Contains all actual disponible databases of DIANE (European
Networkt for direct access to the Informations), includes par-
ticularities of producer organisations and hosts.
ECHO

(DFKL) DOKUMENTATION KRAFTFAHRWESEN
Compilation of german and international informations in all
branches of motor vehicles industry (mechanics).
FIZ TECHNIK, DATA STAR

(DKI) DOKUMENTATION KUNSTSTOFFE, KAUSCHUK, FASERN
Contains international information in the following branches:
plastic- and polymer research, including synthetic materials
(plastic), rubber and fibres.
FIZ TECHNIK

(DOGE) DOCUMENTATION AUTOMATISEE EN GESTION DES ENTREPRISES
Management politics, book-keeping, finance, marketing, infor-
tics and international business policy.
G.CAM

(DONA) DOCUMENTATION MASCHINE BUILDING INDUSTRY

Synthetic products, rubber and fibres.

FIZ TECHNIK

(DUNIS) DIRECTORY OF UNITED NATIONS INFORMATION SYSTEMS

Comprehends description of all american information services.

ECHO

ECOMP

References to energy, administration, technics and research.

INKA

EDIN

Contains data of chemical and toxicological substances in the environment.

ESA-IRS

(EECM) THE EAST EUROPEAN MONITOR - THE CHEMICAL INDUSTRY DATA-BASE

Information about companies, their capacity, details about new products in the chemical industry from Eastern Europe.

DATA STAR

(EIEM) ENGINEERING MEETING

Yearly conferences and meetings all over the world in the engineering and related branches, comprehends also publications.

ESA-IRS, DATA - STAR

EK-MRA

Producers of equipment, installations and accessories for metrology and automatic control technology

FIZ TECHNIK

EK-VDMA

Producers of equipment, installations and accessories for
machine and plant - building industry

FIZ TECHNIK

(EPIC) ESTIMATION DE PROPIETES POUR L'INGENIER CHEMISTE

Physical and chemical properties, of about 500 compositions
(most of them organic). Program package for calculating the
the fluid-steam balance and also the chemical balances of gases
IGL

(EUCAS 67) EUCAS 67

Chemistry and related sciences

QUESTEL

(EUCAS 72) EUCAS 72

Chemistry and related sciences

QUESTEL

(EUCAS 77) EUCAS 77

Chemistry and related sciences

QUESTEL

(EUCAS 82) EUCAS 82

Chemistry and related sciences

QUESTEL

(EURECAS) CAS REGISTRY FILE

Organical and molecular chemical substances, with graphical description of their structures, registration number and CAS applied physical and analytical chemistry and Biochemistry.

QUESTEL

(EW6) NAHRUNG UND ERNÄHRUNG

Food technology; contains bibliographical information, german description and table of contents. The bibliography includes titels in the original language with german and english translation, since 1978 in german and english.

GID

(FCD) FINE CHEMICALS DIRECTORY

Catalogue of chemicals fo. research work.

PERGAMON INFOLINE

(FCUR/FHIS) FUTURES

Financial aspects, including price-estimations, predictions of exchange rates, etc.

ADP

(FROSTI) FOOD RESEARCH ON SCIENTIFIC AND TECHNICAL INFORMATION

Technical and scientific aspects for alimentary products in the analytical methods for production, storing and product-planning
FOOD R.A.

(FUTU) FUTURES INFORMATION SERVICE

References in Literature for all fields, which are dealing with trends, predictions and new ideas for the future.

DATACENTRALEN**(IAI) INDICATEURS DES ACTIVITES INDUSTRIELLE**

Total aspects of the economic development for different Industrial sectors

GSI ECO**(IFP-TH) INSTITUT FRANCAIS DES PETROLES THERMODYNAMIQUE**

Physical - chemical properties as well as transmission characteristics of genuine compositions and mixtures

QUESTEL**(INPADOC) INPADOC**

Patent documents published by 51 national and regional patent offices.

PERGAMON INFOLINE

INPANEM

Contains the 15 weeks more actually INPADOC journal information. Every patent document includes the evidence of each patent equivalent that belongs to this patent family.

PERGAMON INFOLINE**IRCS**

Comprehends all branches of the biomedical science.

DIMDI, DATA-STAR**IRRD**

All aspects of the highway research, including administration and economic aspects, highway planning and analogue structures, material- ground- and rocks mechanics, drainage, road covering, bridge and tunnel building, maintenance and traffic.

ESA-IRS**(MASSLIT) MASS SPECTOMETRY BULLETIN**

Contains bibliographical details of documents in the mass-spectrometry branch: construction and technics; Isotope analysis; Chemical analysis; Organic chemistry; Atomic and molecular process, etc.

PERGAMON INFOLINE, ESA - IRS

(MGTM) MANAGEMENT CONTENTS

Various management and analogue topics, concerning strategic planning for the use of companies, consultants, pedagogic institutions, governmental agencies and libraries.

DATA-STAR**(MMA) MANAGEMENT AND MARKETING ABSTRACTS**

Comprehends all market policies & management branches, including personnel management & employee relations, advertising, administration.

PERGAMON INFOLINE**NEIX**

NEIX describes the combinations of databases NEIL & NEIF and covers also all aspects of energy.

DATACENTRALEN**(NORIANE) NORIANE**

French and international industrial standards and stipulations it contains also french and european technical regulations.

QUESTEL**(NTIS) NATIONAL TECHNICAL INFORMATION SERVICE**

Research-, development-, and application projects promoted by the U.S. government are described in this file with all economic, scientific and technical descriptions.

ESA-IRS

(NZN) NIEDERSAECHSISCHER ZEITSCHRIFTENNACHWEIS

Contains approx. 197 000 currently journal titles in all languages. And it adjoins also the journals in the libraries of Low Saxony and Hamburg (around 270 000 until now)

DBI**(PATSI) PATENTPROFILDienst**

World wide index of all patents for all sectors

INKA**(PERB) EURO REPORT VOLUMEN B**

Historical informations (datas) and estimations for the future of 38 development countries.

ADP**(PESTMAN) THE PESTICIDE DATABANK****Pesticides****PRGAMON INFOLINE****(PHYS) PHYSICALISCHE BERICHTE**

Database for physics and related fields.

INKA

(PHYSCOMP) DATENSAMMLUNG IN DER PHYSIK

International bibliography containing datas for physics

INKA

(PPDS) PHYSICAL PROPERTY DATA SERVICE

Statements for prediction in Thermodynamic and carrying characteristics in mixtures of chemical processes. 34 characteristics are shown for over 400 chemical compositions.

CISI WHARTON

(RAPRA) RAPRA ABSTRACTS

Contains all commercial and technical areas in the rubber & plastic industry, products and manufacturing.

PERGAMON INFOLINE

(RISKECO) RISKECO

Economic reports for Developing Countries. Objective: studying the capital-investment risks for every country.

GSI ECO

(SDIM1) SYSTEM FOR METALLURGICAL DOCUMENTATION AND INFORMATION

Ferrous and non-ferrous metallurgy: metals characteristics, manufacturing, production, preparation & processing.

From 1972 - 1979.

INKA

(SDIM2) SYSTEM FOR METALLURGICAL DOCUMENTATION AND INFORMATION

Contains published literature all over the world on metallurgy: steel, ferrous and non-ferrous metals, alloying & amalgamation. Permits the exact search for alloyings (Standard index of materials).

INKA**(SIDR) STATISTIQUES SUR LA SIDERURGIE (CRONOS)**

Monthly statements about the usage and reserves of iron and steel products.

CISI**(SOCIAL SCISEARCH) SOCIAL SCIENCE CITATION INDEX SEARCH**

International bibliography in social sciences & behavioral research, also in natural sciences, physics & biomedicine.

DIMDI**STEELDOC**

Contains research books & reports from Scandinavian countries. Production, processing and composition of metals are the main topics of this file.

TESS

(SSVA) ITELIS

International database for glass and silicates.

CNUCE

(TECLEARN) TRAINING DATABASE OF FIZ TECHNIK

Training for inexperienced researchers who wants to be confident with the database language.

FIZ TECHNIK

(TELEGENLINE) GENETIC TECHNOLOGY ONLINE

Scientific, technical and socio-economical information for gen - and biotechnology, taken from scientific and non-technical journals, conference papers, reports from companies-governments - and autonomous sources.

DIMDI, ESA - IRS

(THERMODOC) THERMODOC

Literature index for thermodynamics of amalgamations and alloyings in metallurgical engineering.

THERMODATA

(THERMODATA) THERMODATA

Thermodynamical value of elements, components and alloyings specially in minerals and metals.

THERMODATA, SCICON

**(TITUS-E) TRAITEMENT DE L'INFORMATION TEXTILE UNIVERSELLE
ET SELECTIVE**

Documentation of textiles and textil-Industry (french and english edition).

QUESTEL

(WTI) WORLD TRANSINDEX

Translation of natural sciences and technical literature from east-european and asiatic into westeuropean languages; as well as from various westeuropean languages into french, spanish and portuguese.

ESA-IRS

(ZDE) ZENTRALSTELLE DOKUMENTATION ELECTROTECHNIK DATENBANK

Electrotechnology and electronics; data processing and information technics; metrology and automatic control technology.

FIZ TECHNIK

(ZLC) ZINC, LEAD & CADMIUM ABSTRACTS

Contains all aspects of manufacturing, composition and uses of zinc, lead and cadmium, their alloys and compositions.

PERGAMON INFOLINE

E A R N

EUROPEAN ACADEMIC & RESEARCH WORK

EARN, the European Academic & Research Network, is the first general purpose computer network dedicated to all universities, academic and medical research institutions throughout Europe. This network can be used only for scientific, educational, academic and medical purposes; the commercial use is not allowed.

EARN is composed of 300 european institution including universities, research centers and laboratories such like CERN (European Space Agency and the European Molecular Biology Institute) and national research centers and laboratories such as CNRS (France)and the Max Planck Institute (Germany).

EARN was established in the beginning of 1982 and it connects a couple of hundred computers in : Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Israel, Portugal, Spain, Sweden, Switzerland, Turkey and the United Kingdom. In the near future the Ivory Coast is to be connected. EARN is also connected with a similar US-based network called BITNET and with NETNORTH in Canada, further member having possibility to access to equivalent facilities in Mexiko, Japan, South East Asia and Australia.

The basic idea of EARN was proposed by IBM. IBM has thus far supported the network technically and financially, providing some telecommunications equipment and paying for international leased telecommunications lines.

If an IBM or IBM-Compatible System is used, it is recommendable to use the OS (Operating Systems)

- VM/SP (ab Rel. 3) with RSCS V1 or V2
- MVS/SP (ab Rel.3.8) with JES2 1.3.4 or higher
- MVS/SP (ab Rel. 3.8) mit JES3 (without SNA/NJE support)

The connection should be made from VIC to the University of Vienna (Node ANIUNI11).

E A R N Representatives.

A U S T R I A

Universität Linz

A - 4040 Linz

Tel. 43-(732) 231 381 Ext. 9238

EARN: K33A470 at EARN

Contact:

Dipl. Ing. Günther Schmittner

Johannes Kepler Universität Linz

EDP-Centre

A - 4040 Linz

or

Erwin Halpern

EDP-Centre Universität Wien

Universitätsstrasse 7

A - 1010 Wien

Tel. (0222) 436111-24

E S A E U R O P E A N S P A C E A G E N C Y

I R S I N F O R M A T I O N D A T A B A S E S
R E T R I E V A L S E R V I C E

E S R I N

Via Galileo Galilei

I-00044 Frascati, Italy

Telex.: 610637 esrin I

ACOMPLINE - 35

File Supplier

Greater London Council Research Library

The County Hall

London SE1 7PB

Great Britain

Tel. (44) 01 633 7149

Telex.: 919443 GLCHQ G

File Description

Produced in Europe, ACOMPLINE contains all documentation needed by engineers, scientists or sociologists involved in URBAN MATTERS. ACOMPLINE contains many unique references predominantly of British origin but also coming from other European countries and from America.

Subject Coverage

The main subject categories are : housing, population, social planning and services; industrial development and environment; traffic engineering, transportation, economics, finance; local government.

File Update

Approx. 500 records/month

File Size

Approx. 71.000 records

AFFE - 73

File Supplier

Association Francaise pour l Etude des Eaux

21, Rue de Madrid

F-75008 Paris

FRANCE

Tel. 522 14 67

File Description

Produced by the ASSOCIATION FRANCAISE pour l Etude des EAUX the AFFE bibliographic database is the online version of the abstract journal Information Eaux, and provides references to the documents in English (55%), French (35%) and German and other languages (10%) on problems and aspects in relation to fresh water.

AFEE contains references to mainly journal articles (75%) as well as books, reports, conference papers and proceeding (25%). Patent literature is omitted.

Subject Coverage

- * Hidrogeology - Subterranean Water
- * Hydrology - Surface Water
- * Sea, Coastal Areas and Shores
- * Hydrobiology - Water Quality
- * Ecotoxicology - Water Pollution & Treatment
- * Water Distribution - Agriculture - Industry - Energy
- * Health, Hygiene and Safety
- * Physical and Chemical Analysis
- * Microbiological Analysis
- * Water Policy, Planning and Economy
- * Legislation
- * Research and Development

File Size

Approx. 53 000 refs

File Update

Approx. 450 refs monthly

AGE - 70

File Supplier

The Library and Regional Documentation
Center of the Asian Institute of Technology
P.O.Box 2754
Bangkok 10501
Thailand
Telex 84276 th

File Description

A unique source of information for GEOTECHNICAL ENGINEERING research and applications. While covering worldwide literature, the database focuses on publications originating in Asia which are generally not recorded in any other database.

Subject Coverage

Soil mechanics, rock mechanics, foundation engineering, engineering geology, earthquake engineering. Related topics include: highway engineering, soil science, groundwater hydrology.

File Update

Approx. 2400 refs. per year

File Size

Approx. 26000 refs

AGRIS - 29

File Supplier

AGRIS Coordinating Centre

in cooperation with Participating

Countries and Organizations

Food and Agriculture Organization of the United Nations

Via delle Terme di Caracalla

00100 Rome, Italy

File Description

AGRIS is a decentralized, international bibliographic system with input supplied by over 100 national AGRIS centres. Each centre is responsible for collecting, indexing and inputting document references published within their borders. Input from all the centres is collected by FAO and merged into one data base. The data base from 1975-1984 includes more than 1 million references.

Type of literature input includes journal articles, conference proceeding, monographs, theses, patents, maps, technical reports, standards, films and computer media.

All non-English references carry an English translated title. Subject access is provided by the use of subject category, commodity and geographical codes. These are described in the AGRIS Classification scheme FAO-AGRIS--4 (Rev.3) published by FAO.

Beginning in 1979 abstracts are available with some records, beginning 1982 about 15% of the documents are indexed by

AGROVOC. AGROVOC is a multilingual agricultural thesaurus.

It is available from APIMONDIA.

Subject Coverage

Broad subject areas relating to agriculture are:

Research methods; history and geography; education; economics; rural development; rural sociology; marketing; plant production; soil science; plant protection; forestry; animal production; veterinary medicine; aquatic sciences and fisheries; building and machinery; natural resources; water resources; irrigation and drainage; food science and food processing; home economics; human nutrition; pollution; mathematics and statistics; documentation.

File Update

Approx. 10.000 refs/month

File Size

Approx. 1.120.000 (May 1984)

AMPEREDOC - 81

File Supplier

Association Multinationale des
Producteurs et Revendeurs d'Electricité
c/o Electricité de France
Département Systèmes d'Information
et de Documentation

1 Avenue de Général de Gaulle

F - 92141 Clamart

FRANCE

Tel.: (33-1) 765 4158

Telex.: 270400 EDFERIM F

Subject Coverage

Main subject categories are:

- production, transport, distribution, usage of electricity;
- unconventional energy sources;
- related aspects.

File Size

Approx. 1,300 refs/month

File Update

quarterly

AQUALINE - 25

File Supplier

Water Research Centre

Medmenham Laboratory

P.O.Box 16

Medmenham

Marlow

Bucks. SL7 2HD, UK

Tel.: (44) 49166 (Hambleton) 531

Telex.: 8486

Subject Coverage

Water resources and supplies; water quality including health aspects, monitoring and analysis of water and wastes; microbiology; instrumentation; water treatment; drinking water distribution system; sewer and sewerage, water re-use; domestic sewage and industrial effluent treatment including wastes recovery; sludge treatment and disposal; environmental effects of water pollution of coasts and estuaries.

File Update

Approx. 600 refs/month

File Size

Approx. 80,000 refs

BIIPAM CTIF - 71

File Supplier

Centre de Recherches de Pont A Mousson

Service Documentation - Diffusion

B.P. No. 28

F - 54700 Pont A Mousson

FRANCE

Tel.: (8) 381 60 29

Telex.: CR - PAM961330F

CTIF:

Centre Technique des Industries de la Fonderie

12, Avenue Raphaél

F - 75016 PARIS

FRANCE

Tel.: (1) 504 7250

Telex.: CETIF PARIS 611054

Subject Coverage

- * Metallurgy - Foundry Working
- * Corrosion - Coating - Materials Resistance
- * Pipes - Pipelines - Fittings
- * Control - Measurement - Testing
- * Mechanics - Automation - Regulation
- * Resources - Pollution - Antipollution
- * Engineering Organisation, Management & Security
- * Maintenance - Handling
- * Power Engineering - Fluid Mechanics - Hydraulics
- * Building - Public Works
- * Plastics

File Size

Approx. 63.000 refs

File Update

Approx. 400 refs. monthly

BRIX - 77

File Supplier

Building Research Station

Bucknalls Lane

Garston

Watford

Hertfordshire WD2 7JR

Tel.: Garston (0923) 67040

Telex.: 923220

Subject Coverage

The main subject field are: Biodeterioration and preservation of timber, building plant, building problems relevant to developing countries, building processes, building services including acoustics and lightning, construction economics, electric and mechanical engineering, energy conservation, environmental design, environmental pollution, geotechnics and earthquake engineering, materials, structural design, structural engineering, surveying, structural performance, structural properties and uses of timber and board.

File update

Approx. 10,000 refs. per year

File Size

Approx. 104,000 refs

CAB - 16

File Supplier

Commonwealth Agricultural Bureaux

Farnham House, Farnham Royal

Slough SL2 3BN, England

Tel.: UK (44) 2814 2281 US: (800) 528 4841

Twx 847 964

Subject Coverage

The following subject areas are covered:

Agricultural economics & policy; agricultural entomology; animal breeding & genetics; animal feeds & feeding; animal wealth; animal physiology & biochemistry; animal production & management; apiculture; buildings; control of pests; disease & microorganisms; cooperatives; crop ecology & physiology crop husbandry & management; Dairy science & technology; development & agrarian reform; education & extension; engineering & field equipment; environmental pollution; waste disposal & conservation; farm management; fertilizers; field crops fish farming & management food contaminants & additives; foods; forestry & forest products; horticulture, human nutrition & metabolism; immunology immunogenetics; irrigation, drainage & water management; laboratory technique & equipment; legislation; marketing & trade; medical & veterinary entomology, helminthology, mycology, protozoology, microbiology; pasture & fodder crops; pesticides; plant breeding; genetics & variety selection; plant growth regulators; plant nematology; plant pathology; plantation crops; pollination; public Health & Hygiene; rural development

& regional planning; rural recreation & Tourism, rural sociology; soil management & science; storage of commodities; taxonomy; weed control & biology.

File update

Approx. 10,000 refs/month

File Size

Approx. 1,425, refs.

CETIM - 54

File Supplier

Centre Technique des Industries Mécaniques

Boite Postale 67

F - 60304 Senlis

Tel.: (4) 453 13266

Subject Coverage

General problems of firms, materials, tests and measurements, control and regulation, automation, metal machining and forming, surface treatments and coatings, thermal treatments, welding, mechanical joints, adhesive bonding, friction, wear, lubrication, machine parts, plastics, equipment, CETIM reports.

File Update

Approx. 500 refs/month.

File Size

Approx. 70.000 refs

CHEMABS - 2**File Supplier****Chemical Abstracts Service****Customer Service - DDS****P.O.Box 3012****Columbus, Ohio 43210 U.S.A.****Tel.: 614-421-6940****Twx 810-482-1608****Subject Coverage**

Citations to what is new and significant in the following broad fields are covered: biochemistry; organic chemistry; macromolecular chemistry; physical and analytical chemistry; applied chemistry; chemical engineering.

File Update**16.000 refs/month****File Size****over 6,3 million refs****COSMIC - 69****File Supplier****The Computer Software Management and Information Center,****University of Georgia****Athens****Georgia 30602****U.S.A.**

Tel.: 542-3030

Mr. Peter Hill

ESTEC, Dept. TI

Postbus 299

NL-2200 AG Noordwijk

HOLLAND

Tel.: (01719) 83764

Telex.: 39098

Subject Coverage

Subject fields include programs related to:

- * AERONAUTICS and ASTRONAUTICS (air & space transportation, communications, navigation, design, testing, performance, instrumentation, propulsion & power, control)
- * CHEMISTRY & MATERIALS (composite materials, inorganic & physical chemistry, (non)metallic materials, propellants & fuel)
- * ENGINEERING (communications, electronics, fluids & heating, instrumentation, lasers & masers, mechanics)
- * GEO SCIENCES (earth resources, energy, pollution, geophysics, meteorology & climatology, oceanography)
- * LIFE SCIENCES (aerospace medicine, behavioural sciences, man-system technology, planetary biology)
- * MATHEMATICAL & COMPUTER SCIENCES (Computer operations, programming systems, cybernetics, statistics & probability, systems analysis, theoretical & discrete mathematics)
- * PHYSICS (acoustics, atomic, molecular, nuclear & high energy physics, optic, plasma, solid state physics, thermodynamics)

- * SOCIAL SCIENCES (management, information science, economics, cost analysis, political science & law, urban technology)
- * SPACE SCIENCES (astronomy, astrophysics, solar physics, space radiation, lunar & planetary exploration)

File Update**Monthly****File Size****Over 1.000 program records****CURRENT BIOTECHNOLOGY ABSTRACTS - 95****File Supplier****The Royal Society of Chemistry****The University****Nottingham NG7 2RD****England****Tel.: 0602) 507411****Telex.: 37488****File Description**

CBA covers the scientific, technical and technocommercial literature range of the multidisciplinary subject of biotechnology. The Technocommercial abstracts include business news and legal issues safety.

The scientific and technical abstracts are split principally into TECHNOCOMMERCIAL data, TECHNIQUES, specific INDUSTRIAL AREAS and INFORMATION.

Techno-commercial: Business news - Legal issues & safety

Techniques: Genetic manipulation, monoclonal antibodies, enzymology, single-cell proteins and fermentation technology.

Industrial areas: pharmaceuticals, energy production, agriculture, chemical industry and food.

Information: Forthcoming events - Books, reviews.

File Update

Approx. 400 refs/month

File Size

Approx. 7000 refs

DELFT HYDRO - 91

File Supplier

Delft Hydraulics Laboratory,

Information and Documentation Section

P.O.Box 177

2600MP Delft, The Netherlands

Tel.: 31 15569353 ext. 364 or 126

Telex: 38176 hydel nl

Subject Coverage

DELFT HYDRO covers basically FLUID MECHANICS and its APPLICATION in technology and engineering. These applications include physical and mathematical modelling of hydraulic phenomena and relevant computational methods, experimental techniques, development of instrumentation for hydraulic research, the

measurement of fluid bours, breakwaters and offshore structures, dredging and navigation.

Related fields covered are : hydrology, water resources, water pollution control, water quality management, cooling water problems, aquatic ecology and policy analysis.

File Update

Approx. 500 refs/month

File Size

Approx. 500 refs/month

EDF-DOC - 27

File Supplier

ELECTRICITE DE FRANCE

Service Informatique et Mathématiques appliquées

Département Systèmes d'Information et de Documentation

1, Avenue du Général de Gaulle

F-92141 Clamart (France)

Tel.: (33-1) 765.41.58

Telex.: 270400 EDFERIM F

Subject Coverage

Main subject categories are: energy sources; electric power production, transmission and distribution; domestic and industrial applications of electricity; environment, pollution and biology; nuclear power plants, electric machines; computer systems and applications; applied mathematics.

File Update

Approx. 1,500 refs/month

File Size

Approx. 280,000 refs

EI MEETINGS - 51

File Supplier

ENGINEERING INFORMATION, INC.

345 East 47th Street

New York

New York 10017

USA

Tel.: (212) 644-7600

Telex: 4990438

Subject Coverage

- * Civil environmental, Geological and Biological engineering
- * Electrical, Electronics and Control engineering
- * Chemical, Agricultural and Food Engineering
- * Mining, Metals and Fuel Engineering
- * Mechanical, Automotive, Nuclear and Aerospace engineering
- * Industrial and Management engineering

File Update

Approx. 8,000 refs/month

File Size

Approx. 190,000 refs

EMIS - 105

File Supplier

INSPEC Institution of Electrical Engineers

Station House

Nightingale Road

Hitchin

Herts, SG8 1 RJ

Tel.: (44) 0462-53331

Telex.: 825962 IEE G

Subject Coverage

Each EMIS record contains numeric data and associated text for one property of one material. There are four record types:

1 Original Data

These full-text records contain data contributed by research workers reporting their findings for the first time.

2 Datareview

These are reviews of the most up-to-date data available specially written for EMIS and referred by leading scientists. These short full-text articles include the bibliographic source details for all the data reviewed.

3 Literature Derived

Compiled from journal articles and published conference papers these records contain data and associated text

describing the material preparation and measurement technique used to obtain the data. More than 3,000 serials are regularly scanned for new data.

4 Handbook Type

These records contain data obtained from a variety of published sources.

File Update

Monthly

File Size

Approx. 10,000 records

ENEL - 60

File Supplier

ENTE INTERNAZIONALE PER L'ENERGIA ELETTRICA

Direzione Studi e Ricerche

Settore Coordinamento e Programmi

Unità Documentaria

Via Giovanni Battista Martini, 3

I-00198 Roma, Italia

Tel.: 06-85092338

Telex.: 610518 or 610528

Subject Coverage

Conventional, non-conventional and alternate power sources; production, transmission and distribution of electrical power;

home and industry applications of the electricity; interactions of the electrical systems with environment, pollution and biology; nuclear power plants; informatics and related applications; applied mathematics.

File Update

Bi-monthly

File Size

Approx. 900 refs

FLUIDEX - 48

File Supplier

BHRA Fluid Engineering

Cranfield

Bedford MK43 0AJ - England

Tel: (0234) 750422

Telex: 825059

Subject Coverage

**Aerodynamics, Meteorology, Wind Energy - Coastal & Inland
Fluid Engineering - Offshore Technology - Multiphasic Flow -
Mixing/Seperation - Fluids Flow Measurement Instrumentation -
Fluid Power - Fluidics - Rheology - Energy Extraction, Conversion and Storage - Pipes, Pipelines and Fittings - Computational
Fluid Mechanics - Mathematical Modelling - Jet cutting/cleaning
- Fluid Sealing - Materials - Properties, Corrosion - Process
Engineering - Heat Exchange - Dredging/Mining - Pumps, Compressors, Turbines - Fluid Mechanics - Tribology.**

File update

Approx. 3500 refs/quarter

File size

Approx. 141,000 refs

FSTA - 20

File Supplier

International Food

Information Service (FIS)

Lyoner Strasser 44-48 (Arabella Center)

D-6000 Frankfurt am Main 71

West Germany

Tel.: (0611) 6687338

Telex.: 414351 GIDFM

Subject Coverage

Basic food science, food microbiology, food economics, food engineering, food packanging, commodity technologies; all beverages, fruits, vegetables and nuts, cocoa and chocolate products, sugars; cereals and bakery products; fats and oils; diary products; fish; meat; food additives, food law and regulations.

File Update

Approx. 1,500 refs/month

File Size

Approx. 235,000 refs

HSELINE - 47

File Supplier

HEALTH & SAFETY EXECUTIVE

Red Hill

Sheffield S3 7HQ

United Kingdom

Tel.: 0742 78141

Telex.: 54556

Subject Coverage

Science - General technology - Manufacturing industries -
Production - Agriculture - Mining - Explosives Engineering -
Nuclear Technology - Pollution of the working environment -
Occupational Medicine - Toxic substances - Risk assesment -
Safety - Environmental and industrial hazards.

File Update

Approx. 650 refs/month

File Size

Approx. 50,000 refs

INIS - 28

File Supplier

**International Atomic Energy Agency (IAEA)
in cooperation with 72 National Centres and
14 International Organizations**

Subject Coverage

**Theoretical physics, atomic and molecular physics, nuclear
chemistry and physics, radiation sources and radioelements,
life and earth sciences, nuclear medicine, instrumentation,
particle accelerators, engineering, nuclear reactors, nuclear
safety, environment.**

File Update

Approx. 70.000 ref. per year (updates fortnightly)

File Size

50000 References

INSPEC - 8

File Supplier

**INSPEC Institution of Electrical Engineers
Station House
Nightingale Road
Hitchin
Herts., SG5 1 R5**

Great Britain

Tel.: (44) 0462-53331

Telex.: 825962 IEE G

Subject Coverage

The main subject coverage categories are: mathematical physics, electromagnetism and optics; elementary particle physics; nuclear physics; atomic and molecular physics; gases, fluid dynamics and plasmas; structure, thermal and mechanical properties of condensed matter; electrical, magnetic and optical properties of condensed matter; interdisciplinary subjects; circuits and electronics; electron devices and materials; electromagnetics and communication; instrumentation and special applications; power systems and control theory; computer programming and application; computer systems and equipment; information technology.

File Update

Approx. 10,000 refs/month

File Size

Approx. 2,000,000 refs

LABORDOC - 53

File Supplier

Central Library and Documentation Branch

International Labour Office

CH 1211 Geneva 22

Switzerland

Tel.: (022) 99 86 76 or (022) 99 61 11

Telex.: 22 271 BIT CH

Subject Coverage

The main subjects are:

- * Industrial relations and Labour Law**
- * Employment and Working Conditions**
- * Social Security**
- * Vocational Training**
- * Labour Related aspects of economics, social development, rural development, technological change, etc.**

File Update

Approx. 550 records/month

File Size

Approx. 120.000 records

MASS SPECTOMETRY BULLETIN - 86

File Supplier

Mass Spectrometry Data Centre (MSDC)

The University

Nottingham NG7 3RD - ENGLAND

Tel.: (0602) 507411

TWX. 37488

Subject Coverage

Instrument design and techniques-Isotopic analysis, mass measurement-Chemical analysis- Organic Chemistry- Atomic and Molecular processes- Surface phenomena and solid state studies- Thermodynamics and reaction kinetics.

File Update

Approx. 750 refs/month

File Size

Approx. 120 000 refs

MERLIN-TECH - 65

File Supplier

MERLIN GERIN

Service Documentation

F-38050 Grenoble Cedex

France

Tel.: (76)579460 / 576060

Telex.: 329842 MERGER

Subject Coverage

- * Electricity - Magnetism
- * Electrical Engineering
- * Electrotechnical devices and equipments
- * Power Systems
- * Energy

- * Electronic circuits and instrumentation .
- * Control Systems
- * Computer systems and equipments
- * Materials
- * Testing - Reliability - Safety
- * Interdisciplinary subjects

File Update

Approx. 200 refs/month

File Size

Approx. 28.000 refs

METADEX - 3

File Supplier

American Society for Metals

Metals Park, Ohio 44703,

U.S.A.

Tel. (216) 338-5151

Telex.: 980-619 METALEX-MTPK

and

The Metals Society

1 Carlton House Terrace,

London SW1Y 5DB,

ENGLAND

Tel.: (01) 8394071

Telex.: 8814-813 METSOC

Subject Coverage

In the main, properties of metals and alloys and those processes affecting the properties are dealt with. Engineering aspects which do not affect the properties of metals are excluded. Specific subjects covered included:

Constitution; Crystal properties; Physics of Metals; Metallography; testing; analysis; mechanical, physical, electrical and chemical properties; corrosion; ores; raw materials; extraction; smelting; refining; purification; ferrous and non-ferrous production; foundry working; machining; powder Technology; joining; finishing; coating; thermal treatment; engineering components and structures; composites; electronic devices.

Beginning January 1983, a new steel supplement to metals abstracts has been published, which covers technocommercial aspects of the steel industry.

The coverage includes also: fuel, energy usage and raw materials; steel plants; engineering, environmental issues, health and safety product and process developments; application and competitive materials; management topics, regulations and marketing, economics, statistics and resources, world steel news.

File Update

Approx. 2,600 refs/month

File Size

Approx. 485,000 refs

NTIS - 6

File Supplier

**National Technical
Information Service
5285 Port Royal Road
Springfield, Virginia
22151 U.S.A.
Tel.: (703) 487 4650
Twx.: 89-9405**

Subject Coverage

Announcements are arranged in 22 subject categories further separated into 178 sub categories developed by the Committee on Scientific and Technical Information (COSATI).

These are : aeronautics; agriculture; astronomy and astrophysics; atmospheric sciences; behavioral and social sciences; biological and medical sciences; chemistry earth sciences and oceanography; electronics and electrical engineering; energy conversion; materials; mathematical sciences; mechanical, industrial, civil and marine engineering; methods and equipment; military sciences; missile technology; navigation, communications, detection and countermeasures; nuclear science and technology; ordnance; physics; propulsion and fuels; space technology.

File Update

Approx. 5,000 res/month

File Size

Approx. 1.200.000 refs

PASCAL - 14

File Supplier

INFORMASCIENCE

Centre National de la Recherche Scientifique

26, Rue Boyer

75971 Paris - Cedex 20 France

Tel.: (33) 358 3559

Twx. CNRSDOC 220880 F

Subject Coverage

PASCAL is a pluridisciplinary database.

The major subject areas are . (5%) vegetal biology, food and agricultural sciences; (7%) earth sciences; (19%) physics, space sciences, computer sciences, electrical engineering; (4%) chemical physics; (38%) life sciences, biology, medicine; (17%) chemistry, applied chemistry, pollution; (4%) fuels and energy; (7%) metallurgy, mechanical and civil engineering, transportation.

File Update

Approx. 40,000 refs/month

File Size

Approx. 4,350,000 refs

PASCAL TRAINING - 37**File Supplier****INFORMASCIENCE****Centre Nationale de la Recherche Scientifique****26, rue Boyer****75971 Paris - Cedex 20****France****Tel.: 3583559****Twx. CNRSDOC 220880****Subject Coverage**

The major subject areas are : Food & Agricultural Sciences;
 Electric Engineering - Space Sciences - Chemical Physics -
 Applied Chemistry, Pollution - Medicine - Metallurgy, Civil
 engineering - Transportation, Earth Sciences - Physics (10%)
 Computer Sciences - Chemistry (15%) - Life Sciences, Biology
 (35%) - Energy & Fuel - Mechanical Engineering.

File Size**Approx. 23.000 refs****ROBOMATIX - 84****File Supplier****EIC/Intelligence****Environmet Information**

Center Inc.

48 West 38th Street

New York, N.Y. 10018

U.S.A.

Tel.: (212) 944 8500

Telex.: 668298 EIC

Subject Coverage

- * Business- Economics
- * Human Factors
- * Special Applications
- * Computer Aided Manufacturing (CAM)
- * Inspection & Optic - Processes
- * Material Handling
- * Product Assembly - Transport
- * Artificial Intelligence (AI) & Planning Software
- * Sensors - Control - Locomotion
- * Mechanical Design

File Size

Approx. 2000 refs

File Update

Approx. 100 refs monthly

TRANSDOC - 74

File Supplier

European Conference of Ministers of Transport/Conférence

Européenne des Ministres des transports

19, Rue de Franqueville,

F-75775 Paris Cedex 16

France

Tel.: 524 82 00

Telex: COMITRANS PARIS 611040

Subject Coverage

- * Transport systems and economics
- * Political, planning, sociological and management aspects
- * Inland transport, and their links with maritime and air transport (ports, airports)
- * Urban, domestic and international transport
- * Environmental and energy issues, land use and planning

File Size

Approx. 10.000 refs.

File Update

Approx. 175 refs monthly

INFO FOR NEW ECHO USERS

The adjoined registration form provides you with your ECHO passwords which should enable you to connect up to the ECHO computer in Luxembourg. Your ECHO user manual will be mailed to you under separate cover and should arrive shortly.

Whilst awaiting the arrival of your manual, please find below some basic commands which should help you to find your way around the ECHO databases and which should enable you to carry out the logon and logoff procedures to the ECHO system.

1. How to LOGON

a) Terminal settings

- set your terminal and modem/acoustic coupler to 300 baud or 1200 baud as applicable
- set your terminal to FULL DUPLEX

b) Dial your local PTT node _____

c) Wait for whistling signal and then switch modem from "TALK" to "DATA"

d) You should now receive a message from PTT which will be your prompt to enter your network passwords for access to ECHO.

e) Enter passwords in the following sequence

XXXXXXX-A9270448112 <CR> for England
XXXXXXX-0270448112 <CR> for other countries

NUI NUA

NOTES:

NUA = Network User Address (ECHO's computer)
NUI = Network User Identifier (your PTT password)
<CR> = Carriage Return

f) You will now receive the message "COM", which tells you that your call to ECHO has been connected, followed by a message from ECHO asking you to enter your ECHO password.

COM

% E222 PLEASE LOGON AT V219H00

/PASSWORD

% E223 LOGON ACCEPTED FROM LINE V219H00 /AX29005 AT 1137 ON
85-01-23.TSN 0723 ASSIGNED

%(MSG) % % E229 LU777 LOGGED ON LINE V219H00 /AX29005

J A N U A R Y 1 9 8 5

HELLO FROM ECHO!! WE HOPE YOU ENJOY YOUR SESSION!

1985 VERSION OF DIANEGUIDE NOW ONLINE!!!!!!!!!!!!!!

YOU ARE NOW ACCEPTED BY GRIPS VERSION 3.06

ENTER BASE COMMAND

?

2. The BASE Command

You can use the base command in two ways:

- a) to get a list of databases available
- b) to call a specific database and to search in this database

1. If you enter the command BASE you will get a list of all the databases available on your ECHO password. At the end of this list you may enter one of the "poolkeys" (a short form for the database name) listed..

eg DGB5 - for the DIANEGUIDE database

2. If you already know the full name of the database, you enter the command BASE followed by the database name.

eg BASE DIANEGUIDE
BASE COMMAND ACCEPTED FOR DGB4; DIANEGUIDE;
ED=01.01.81 TO 03.01.85; TL=ENGL

3. The HELP Command

Entering this command the system will give you at any time support information pertaining to Grips/dirs3 functions and the current dialogue.

If you do not know what to do next just enter "HELP" or "?" and the system will give you advice on the next steps available to you during your search.

eg ?COMMAND : explains the command eg ?FIND
COMMAND? : explains the actual use of the command in the
actual session eg FIND?

4. The INFO Command

In order to have a closer look into the databases please use the INFO command. This command gives you for every database a summary of database relevant online aids eg INFO EABS will provide you with some online advice specially prepared for the EABS database.

eg **INFO TEDALL:** to get the whole TED information file
 online
 INFO DIANE: to get the whole DIANEGUIDE information
 file online
 INFO EABSALL: to get the whole EABS information file
 online
 INFO TEDFIELDS: to get the information on all the fields
 available in a TED record.

5. To change the thesaurus language

One can use the following command to change the thesaurus language ie if the database uses a multi-lingual thesaurus.

eg **DEF TL=FREN** (for French language version)

(For other language versions: GERM = German; ITAL = Italian;
DUTH = Dutch ... English is the default language.)

6. How to LOGOFF

To exit the computer type:

```
STOP ?
      STOP
      QUERY-NO:           ; END-USER-ID: ECHO       ; BASE: T083
      CUSTOMER: XECHO005; DATE: 26.07.84; TIME: 15:52:50
      CONNECT-TIME:      14:13 MIN:SEC
      SHOW-CITATIONS:    12
      NO ONLINE DISPLAY OF COSTS POSSIBLE
      % E419 LOGOFF AT 1552 ON 84-07-26. FOR TSN 8660
      % E421 CPU TIME USED: 000017.4576 SECONDS
      CLR PAD
```

7. VIDEOTEX-Users

If you want to use ECHO with a Videotex terminal you enter the following command:

DEF MODE=VTX

before entering the BASE command. After the display of the welcome page you proceed in the normal way.

ECHO Help Desk: (+352) 48 80 41

DIANE GUIDE HOSTS

(ADP) ADP NETWORK SERVICES
 MR. VERSTRAETEN
 7, RUE DE LIVOURNE 1050 BRUXELLES BELGIUM
 TEL : (32-2)538-89-62
 TELEX : 26868
 NUA: 234219200118

(ARDIC-CIDA) ASSOCIATION POUR LA RECHERCHE ET LE
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 25, RUE JUSSIEU; 75005 PARIS; FRANCE
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 NUA: 208075000120

(ASSOLOMBARDA) SIDERAL INFORMATICA
 MR. ANDREA ZERILLI/MR. GIANFRANCO TRIPPA
 ASSOLOMBARDA; VIA PANTANO 9; 20122 MILANO; ITALIA
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 TELEX : 380406 ASLOMB
 NUA: 2222392001

(BELINDIS) BELGIAN INFORMATION AND DISSIMINATION SERVICE
 JACQUES LAUWERYS (FRENCH); DE WAELE (DUTCH)
 RUE J.A. DE MOT 30; 1040 BRUXELLES; BELGIUM
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 NUA: 2062221012

(BLAISE-LINE) BRITISH LIBRARY AUTOMATED INFORMATION SERVICE
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 TELEX : 21462
 NUA: 234227900102

(CED) CENTRO ELETTRONICO DI DOCUMENTAZIONE GIURIDICA
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 NUA: 2222620002

(CERVED) CERVED-SPA
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 CORSO STATI UNITI, 14 I 35100 PADOVA, ITALIA
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 TELEX : 430433

(CIGL) CENTRE D'INFORMATIQUE GENERALE LIEGE
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 NUA: 2062220003

(CILEA) CONSORZIO INTERUNIVERSITARIO LOMBARDO PER
 L'ELABORAZIONE AUTOMATICA
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 VIA R. SANZIO 4; 20090 SEGRATE (MILANO); ITALY
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(CIRCE) CENTRE INTER-REGIONAL DE CALCUL ELECTRONIQUE

MR. SALZEDO
BP 63, F 91406 ORSAY, FRANCE
TEL : 33 69287675
TELEX : 692166 F SACORS
NUA: 2080910006931

(CISI WHARTON) CISI-WHARTON LTD

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TELEX : 916635 SIAGTE G

(CISI) COMPAGNIE INTERNATIONALE DE SERVICES EN INFORMATIQUE

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TELEX : 260710 F
NUA: 208091000519;
NUA: 208091000309

(CMS) COORDINIERT MANAGEMENT SYSTEME

MAINZER LANDSTRASSE 27; D-6000 FRANKFURT/MAIN; BRD
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TELEX : 414742 CMS D

(CNUCE) CNUCE

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TELEX : 500371 CNUCE I
NUA: 2222620035

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NUA: 228464110115

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RETORTVEJ 6-8; DK2500 VALBY
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TELEX : 27122
NUA:238241592400

(DATASOLVE) DATASOLVE

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DATASOLVE HOUSE, 99 STAINES ROAD WEST,
SUNBURY-ON-THAMES, MIDDLESEX, TW16 7AH ; ENGLAND
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TELEX : 88 11720
NUA: 23475312212

(DBI) DEUTSCHES BIBLIOTHEKSINSTITUT
FRAU TRAUTE BRAUN
BUNDESALLEE 185;1000 BERLIN 1 ; BRD
TEL : -49-30-8505-199
TELEX : 184 166 DBI D
NUA: 26245300040020

(DIMDI) DEUTSCHES INSTITUT FUER MEDIZINISCHE DOKUMENTATION
UND INFORMATION
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POSTFACH 420580; D-5000 KOELN 41;WEISSHAUSTR. 77
TEL : 49-221-4724252
TELEX : 8881364
NUA: 26245221040006DA OR B OR C OR V;
NUA: 26245221040104DA OR B OR C OR V

(ECHO) EUROPEAN COMMISSION HOST ORGANIZATION
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177, ROUTE D'ESCH;L - 1471 LUXEMBOURG
TEL : 352-488041
TELEX : 2181 EUROL LU
NUA: 270448112

(EDS) ELECTRONIC DATA SYSTEMS
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TELEX : 893538
NUA: 23421920015412

(EPO) EUROPEAN PATENTS OFFICE
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NETHERLANDS
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TELEX : 31651 IIBNL
NUA: 2041170121

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EXT 4015
NUA: 208091000192

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NUA: 2222620021 IT;
NUA: 208075000394 FRANCE;
NUA: 234219201156 U.K. ;
NUA: 232911600744 AUSTRIA

(EURIS) EURIS
MR. JACQUES QUENOT
SQUARE DE MEEUS 5; 1040 BRUXELLES; BELGIUM
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TELEX : 23697
NUA: 2062221026

(EXIS) EXIS, LTD.
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NUA: 23423250124

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TELEX : 89 2520
NUA: 234219200101

(FIZ TECHNIK) FACHINFORMATIONSZENTRUM TECHNIK E.V.
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D-6000 FRANKFURT MAIN 1
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TELEX : 4189459 FIZT D
NUA: 26245724740001;
NUA: 26245724740141

(FOOD R.A.) LEATHERHEAD FOOD RESEARCH ASSOCIATION
DR. DEE MARRABLE
RANDALLS ROAD; LEATHERHEAD, SURREY KT22 7RY; ENGLAND
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TELEX : 929846
NUA: (ONLY GIVEN TO CUSTOMERS)

(G. CAM) G. CAM SERVEUR
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PARIS CEDEX 15; FRANCE
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TELEX : 203933 F GCAMSER
NUA: 208077000841;
NUA: 208077040153

(GEOSYSTEMS) GEOSYSTEMS
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P.O. BOX 1024, LONDON SW1, ENGLAND
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TELEX : 051 91 5771
NUA: 234296840111

(GID) GESELLSCHAFT FUER INFORMATION UND DOKUMENTATION
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TELEX : 414351
NUA: 2624569004009 SIEMENS;
NUA: 26245690040117 IBM

(GSI ECO) GSI-ECO
M. DIDIER WEITZMAN
25 BD DE L'AMIRAL BRUISE, 75782 PARIS CEDEX 16
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NUA: 20809208043202;
NUA: 20809208043210

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TELEX : 122220 ECON SR
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(IFREMER) INSTITUT FRANCAIS DE RECHERCHE POUR
L'EXPLOITATION DE LA MER
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TELEX : 940627
NUA: 208029000245

(INFAS) INSTITUT FUER ANGEWANDTE SOZIALWISSENSCHAFT
MARGARETENSTRASSE 1; D-5300 BONN 2
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TELEX : 885575 INFAS D
NUA: 2623074

(INFOLINE) PERGAMON INFOLINE
SARAH DUNN(MARKETING MANAGER)
12 VANDY STREET; LONDON EC2A 2DE
TEL : 44-1-377 4650
TELEX : 8814614
NUA: 234219200190

(INKA) INFORMATIONSYSTEM KARLSRUHE
DR B JENSCHKE
D-7514 EGGENSTEIN; LEOPOLDSHAFEN 2
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TELEX : 7826487 FIZE
NUA: 26245724740141;
NUA: 26245724740001

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TELEX : 611975 FEDEBAT F
NUA: 208075000155

(JRC) JOINT RESEARCH CENTRE

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TELEX : 380058/380042 CUM I
NUA: 2222412001

(KODA) KODA ONLINE

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TELEX : 95127 INF SER G
NUA: 228468114080

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TELEX : 17179 KIBIC
NUA: 02405015330

(QUESTEL) TELESYSTEMES-QUESTEL

MME CATHERINE SPINOLLA
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TELEX : 204594 F
NUA: 208006040010;
NUA: 208006040011 QUESTEL1;
NUA: 208006040201 QUESTEL2 ET QUESTEL+

(SCICON) SCICON LTD.

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TEL : 44-1-580-5599
TELEX : 24293
NUA: 234290840111

(SLIGOS) SLIGOS

MR. ESTAPA
91 RUE JEAN JAURES, F 92807, PUTEAUX, FRANCE
TEL : 331 7764242
TELEX : 61 0677R
NUA: 208092020028

(TESS) TESS SOEKSERVICE
MR. KJELL AESTROEM
BOX 3295; SKEPPARGATAN 37; 103 66 STOCKHOLM
TEL : 46-8-7838480
NUA: 2405171

(THERMODATA) THERMODATA B.U.S.
MR. DANIEL
BP. 66; F- 38402 ST. MARTIN D'HERES CEDEX
TEL : 33-76-427690
NUA: 208038020100;
NUA: 208038020101

THERMO-CALC GROUP
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DIVISION OF PHYSICAL METALLURGY, ROYAL INSTITUTE OF
TECHNOLOGY, 100 44 STOCKHOLM
TEL : 46 8 787 9140
NUA: 240200101926

EUROPEAN COMMON COMMAND LANGUAGE

QUICK REFERENCE LIST OF ESA-IRS/CCL COMMANDS

Command	Abbreviation	Function	Example
..Set Language to E ..Set Language to O		please accept all CCL exclusively please accept again both ESA-QUEST commands and main CCL (these latter are marked with an * on this sheet)	
BASE		Start search Start search in specified file Start search and limit to year range In which base is user working?	BASE BASE1 BASENASA BASE2: ED=80 TO 83 BASE?
DISPLAY	D	Display term from basic index Display term with prefix code Display term with suffix code Display related terms Display related terms above 99 Display after "find"	D CLIMATE D AU= SMITHSON D WASSEKGT D AFRIQUE/REL D R1/100 D
FIND	F	Find Term Find term with prefix code (no punctuation) Find term with prefix code (punctuation) Find author name Find term with suffix code Find term from Display list (single term) Find term from Display list (range of terms) Find stem Find stem with mask Find term with internal mask Find term in Tt, AB, UT Fields (file dependent) Find terms with contextual logic within same field (in any order) any distance within subfield (in any order) any distance within subfield (in given order) adjacency (in given order) within ONE word distance (in any order) within ONE word distance (in given order) WITHIN TWO word distance (in any order) within TWO words distance (in given order) within THREE words distance (in given order) exactly THREE word distance (in given order) Find terms in combination (unspecified fields) Find terms in combination with stem Find terms in combination (specified fields) Find terms in combination with prefixes Compressed notation Find terms in combination with set numbers	F GOLD F LA= DUTCH F CS= ELF F CC= "101.A.01.B" F AU= SMITHSON F IRON(TI, CT) F E6 F R2 F E6, E8, E10 TO 12, E15 F CLIMATS F PLANTS \$ F WOMSN F FT= GOLD F ELECTRIC . . PLANT F ELECTRIC . . PLANT F ELECTRIC . PLANT F ELECTRIC PLANT F ELECTRIC . PLANT F ELECTRIC PLANT F ELECTRIC . . PLANT F ELECTRIC . PLANT F ELECTRIC . PLANT F ELECTRIC . PLANT F ELECTRIC \$ \$ \$ PLANT F (TERMA AND TERMB) OR TERMC F (TERMAS AND TERMS) OR TERMC\$ F (TERMA OR TERMB)(TI, UT) AND TERMC\$C\$ F RN= "51-11-1" AND AU= HAFS F (AND ALPHA;BETA) F (* ALPHA;BETA) F AU= (OR ALPHA; BETA; GAMMA) F CT= (AND ALPHA;BETA) F (GOLD AND 3) OR 5 NOT 12 F (GOLD*3) + 15-12 F? ALL F? \$= 5 TO 16 F? LAST
FIND?	F?	Set history	
QUEST INDEX	O	Automatic display of ESA-IRS file subject coverage Automatic specification of a group of files Automatic temporary selection (or multicomination) in a group of files (-crossfile searching-) Automatic temporary execution of a whole profile in a group of files (-crossfile searching-)	O TOPIC? O TOPIC MANAGEMENT O TOPIC MEDICINE, 1 O F PUBLIC RELATIONS AND ADVERTISING O F SAVE = 45X

N.B. SPACES AS INDICATED IN EXAMPLES MUST BE RESPECTED

**This set of commands is an ESA-IRS exclusivity

* and **: All these commands can also be used when no retrieval language is specified to the ESA-IRS computer
(full commands and relevant abbreviations can be used)

Command	Abbreviation	Function	Example
• SHOW	S	Show last set created (default format 1 item) Show last set created (specified standard format) Show certain item out of a given set, specified format Show certain range of items of a given set, specified format Continue Show (next item or group of items)	S S F=4 S S=3; F=5; R=21 S S=3; F=5; R=21 TO 23 S S=3; R=21 TO 23; F=HD, TI, AB M
• MORE	M	Page forward	M
• BACK	B	Page backward	B
• DEFINE	DEF	User defined format (format 9)	DEF=CT, TI (format 9 created will show or print references with specified fields in specified order)
PRINT	PR	Print last set created (default format 50 items) Print specified set in specified format Print part of given set ordering (H = hardcopy, M = microfiche) Print continuation Print cancellation (previous print)	PR PR S=3; F=9 PR S=3; F=9; R=24 TO 79 PR S=3; R=24 TO 79; F=HD, TI, CS, RN M B
• DELETE	DEL	Delete previous print Delete set x to last Delete last set only Delete all sets	DEL PR (identical to B) DEL S=x TO 98 DEL DEL ALL
• SAVE		Save strategy Save strategy for SDI Recall strategy 4SX Execute strategy 4SX (automatic recall included) Release strategy 4SX	SAVE SAVE; SDI (file dependent see ?SDI) F SAVE = 4SX; NOFIND F SAVE = 4SX DELETE SAVE = 4SX
STOP		Terminate terminal session End of search Terminate search, start a new one in same file	STOP STOPBUT STOP ON = NEW
OWN	O	Transparent mode to use ESA-QUEST commands directly	OM101/HELP PLS (message to duty officer) OL7/CT OK9

N.B. REFER ESA-QUEST MANUAL FOR DETAILED COMMANDS.

* All these commands can be used also when no retrieval language is specified to the ESA-IRS Computer
(abbreviations are not available except for DELETE and OWN)

X When conversing in ESA-QUEST language, use the command END instead.

For a disconnection please enter the command LOGOFF

QUICK REFERENCE LIST OF ESA-QUEST COMMANDS

COMMAND	Abbreviation	FUNCTION	EXAMPLES
BEGIN BEGIN N (N = file number = file name)	B B	Begin Search Begin Search with immediate entry in a file (can be used for any file switch)	BEGIN B BEGIN 3 B3 B METADEX B PASCAL B CHEMABS
EXPAND	E	Expand Term from Basic Index Expand Term with Prefix Code Expand Term with Suffix Code Expand Related Terms Expand Related Terms over 99 Direct Expand of Related Terms Expand after Select	E COMPUTER E AU=EDWARDS E COAL/TI E E6 E R1/100 E COMPUTERWT E
SELECT	S	Select Term Select Term with Prefix Code Select Term with Suffix Code Select from Expand List (single term) Select from Expand List in Range (one set) Select from Expand List in Ranges (separate sets) Select Stem Continuing long selection Select using Contextual Logic —within a citation —word and prefixed terms in a citation —in the same field —in the same sentence —adjacent terms —fragments of a word (file 2 only)	S COMPUTER S CC=1234 S STEEL? ?CT S E6 S E6,E15 S E6 E12 S COMPUT? S TAR? ? S? S?15 S FISH (C) POND? ? S MF=CGH1206 (C) GRAPE S COLD (F) WATER?/TI,CT S SPIN (S) WAVE? ? S REMOTE (W) SENSING S FLUORO (T) BENZENE
QUEST INDEX	O	Automatic display of ESA-QUEST files subject coverage Automatic specification of a group of files Automatic temporary selection in a group of files (crossfile searching for finding quickly the most suitable file where to develop a search)	O TOPIC? O TOPIC AGRICULTURE O TOPIC PHYSICS. 27 O S DESERT? (C) IRRIGATION
COMBINE	C	Combination of set numbers	C? C1 and 2 C(1*2)+(3*4) C1-3/OR C99*2
TYPE For viewing data on a screen only, use DISPLAY e.g. D42/2/26 D- means Display Back	T	Type ESA-QUEST Accession Number Type Set Number Type Forward Type Certain item out of Set Type Certain Range out of Set Type in Formats (1.2 3 4.5.6.)	T 74N12345 T 6 T T 42/2/26 T 42/2/26-41 T 996 T 74N12345/4
DISPLAY SETS	DS	Display Set History Display Specific Set in History Display Specific Range in History	DS DS3 DS3-10 DS7-99
ZOOM	Z	Automatic on the spot analysis of set contents (statistics on indexing terms, titles, authors, corporate sources, codes, molecular formulae etc.) ZOOM on indexing terms in 50 citations of last set in 120 citations of set 4 in 20 latest citations of set 4 in 70 latest citations of set 4 (with word by word analysis) ZOOM on authors ZOOM on classification codes Online explanations (varies for each database)	ZOOM or Z Z 4 (120) Z 4 (20) LATEST Z 4 (70) LATEST W Z AU Z 4 (120) AU Z LATEST AU Z CC Z4 (120) CC Z?

NB Refer to ESA-QUEST User Manual for detailed explanations

IRS/OLS/February 1983

COMMAND	Abbreviation	FUNCTION	EXAMPLES
.DELETE		Delete Last Set Delete Range of consecutive sets including Last Set: Delete All Sets	.DELETE .DELETE 26-31 .DELETE ALL
END/SAVE .EXECUTE xxx .EXECUTE xxx/N .EXECUTE STEPS xxx .EXECUTE STEPS xxx/N .RECALL .xxx .RELEASE .xxx END/SDI	.EX xxx .EX xxx/N .EXS xxx .EXS xxx/N	Search Save (the computer allocates a Serial number. xxx) Search Execute (for a direct EXECUTION) Search Execute up to line N (" ") Search Execute Steps (for a direct EXECUTION by steps) Search Execute Steps up to line N (" ") Search Recall (optional) Search Release (preceded by RECALL Search No.) Search Save for SDI (applicable when the search begins with a BEGIN command) (for cancellation .RECALL .xxx then .RELEASE)	END/SAVE .EX 13BJ .EXECUTE 13BJ25 .EXS 13BJ .EXS 13BJ25 .RECALL 13BJ .RELEASE 13BJ END/SDI
PAGE	P	Page Forward Page Back	P P-
PRINT PRINT-	PR PR-	Offline print of displayed Offline print of set number (max. 50 items in format 2) Offline print item specifying a Format and no references Offline print of certain item or Range of items Delete last offline print order	PR PR6 PR99 PR6/4/1-250 PR6/4/37 PR6/4/20-45 PR- PR- PR-
ORDER ISSUE ORDER DELETE ORDER STATUS FULL ORDER TYPE ORDER SHOW	OI OD OST OT OS	Online Ordering of Original Documents (performance) Specifying a given supplier Using ESA-QUEST accession number format: H hardcopy M microfiche Delete Original Document Order (refer to the order no.) Full Description of all the Orders Description of One Order Description of one order on a screen	OI 8/M/2-3 OI S=UBUTEX 8/M/2-3 OI 1802833/M OD11 OSTF OSTFW OT12/S OS12/4
LIMIT ALL/XX LIMIT ALL LIMIT N.B. CHECK ESA-GUEST MANUAL AND ONLINE TUTORIALS (?LIMIT n) FOR LIMIT POSSIBILITIES ON INDIVIDUAL FILES	LALL/XX LALL L	Limit All Successive Sets to given parameters Cancel Limit All Limit Set by Timespan Limit Set by File Update Limit Set by Type of Document Limit Set by Type of Term or Code Limit Set by Subject Area Limit Set by Field N.B. ELEMENTS CAN BE USED TOGETHER RESPECTING THE FOLLOWING ORDER Lst: Number/Time/Type of Document/Type of Code/Field/Language or Subject Area or Term	LALL/83 LALL/PA LALL/83/PA LALL L9/80-83 L9/90-98 L9/UP L9/UP-2 L9/PA L9/FILM L9/MAJ L9/NEW L9/B L9/A L9/ANI L9/CT L9/TI,AB e.g. L9/80-82/TI L7/82/MAJ L7/88/PACT
KEEP	K	Transfer of references in special set 99. Keep. Single item of given set Keep. Range of items in given set Keep ESA-QUEST Accession Number	K 6/45 K 6/45-52 K 74N12345
END LOGOFF LOGOFF HOLD LOGOFF BUT		End Search Terminate Terminal Sessions Temporary Interruption (max. 20 min.) End of Session, start with another password without disconnecting	END LOGOFF LOGOFF HOLD LOGOFF BUT
MESSAGE	M term no./	Message to a Terminal	M101/HELP ME...
.FILE N. (N = file no.)		File Switch (without cancelling sets created before in other files)	.FILE 4
?XXXXXXX (X = code)		Online Consultation of standard information (e.g. charges, fees, search commands, etc.)	?GLOSSARY ?LIMITS ?ZOOM ?FILES ?SET ?PRIMORD ?QUESTIN
...SET		Change standard COMPUTER-USER INTERFACE	.SET PASSWORD CODE TO ABC