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**KEY=INFORMATION - CANTRELL MAURICE**

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**INFORMATION SOURCES IN CHEMISTRY**

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*Walter de Gruyter* **The aim of each volume of this series Guides to Information Sources is to reduce the time which needs to be spent on patient searching and to recommend the best starting point and sources most likely to yield the desired information. The criteria for selection provide a way into a subject to those new to the field and assists in identifying major new or possibly unexplored sources to those who already have some acquaintance with it. The series attempts to achieve evaluation through a careful selection of sources and through the comments provided on those sources.**

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**CHEMICAL INFORMATION RESOURCES DIRECTORY DESCRIPTIVE AND SUBJECT CATALOGS**

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**A DIRECTORY OF COMPUTER SOFTWARE**

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**PROCEEDINGS OF THE SYMPOSIUM ON COMPUTER-BASED CHEMICAL INFORMATION, 4-7 NOVEMBER 1968, NOORDWIJK, THE NETHERLANDS**

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## **MUON AND MUONIUM CHEMISTRY**

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*Cambridge University Press* This book covers all aspects of the chemical behaviour of the muon - a rare, short-lived, elementary particle having a mass intermediate between that of the proton and the electron. Muons provide an exceptional opportunity to investigate basic chemical interactions, simply because they are so short-lived: they can thus be studied using the powerful technique of muon spin rotation, in which the yield, decay rate and identity of the muon in several different states is observed. Although originally of principal interest to nuclear and particle physicists, muons have recently become important as probes in solid-state physics and in all phases of chemistry. This book will be a valuable source of information for research scientists, university teachers and graduate students interested in physical chemistry, chemical physics and the application of nuclear science to the life sciences.

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## **CHEMICAL MODELING FOR AIR RESOURCES**

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### **FUNDAMENTALS, APPLICATIONS, AND CORROBORATIVE ANALYSIS**

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*Academic Press* **Chemical Modeling for Air Resources** describes fundamental topics in chemical modeling and its scientific and regulatory applications in air pollution problems, such as ozone hole, acid rain, climate change, particulate matter, and other air toxins. A number of corroborative analysis methods are described to help extract information from model data. With many examples, **Chemical Modeling for Air Resources** may serve as a textbook for graduate students and reference for professionals in fields of atmospheric science, environmental science and engineering. Presents atmospheric chemical modeling from both scientific and regulatory perspectives Includes a range of topics for each pollutant, including the science of how it forms, its health effects, the regulatory context, and modeling A succinct overview for air quality regulators and industry consultants interested in the most widely used modeling software

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## **INFORMING CHEMICAL ENGINEERING DECISIONS WITH DATA, RESEARCH, AND GOVERNMENT RESOURCES**

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*Springer Nature* This book offers new engineers and engineering students appropriate and effective strategies to find data, statistics, and research to support decision making. The authors describe the utility of solid reputable sources and help readers go beyond reliance on the quick Internet search, a habit which is often both inadequate to complex tasks and a source of criticism from employers. Some sources are free; others are available through libraries, or by

purchase or subscription. This title can be used as a guide in concert with the advice of professors and colleagues, and potentially as a textbook. The examples are primarily from chemical and agricultural engineering, but the strategies could be adapted to other disciplines. An array of sources are shown, ranging from scholarly or professional societies, data sources, and books, to handbooks and journal sources, and less commonly used credible government documents and Web resources, including information from the USDA, the EPA and the DOE. Two case studies show research processes and the application of the underlying strategies and some of the tools.

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## **MANPOWER RESOURCES IN CHEMISTRY AND CHEMICAL ENGINEERING**

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### **A SOURCE BOOK IN CHEMISTRY, 1400-1900**

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*Harvard University Press* A collection of important writings in the history of chemistry from 1400-1900, each with an introduction by the editors.

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### **A COMPARISON OF EVAPORATIVE SOURCE STRENGTH MODELS FOR TOXIC CHEMICAL SPILLS**

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### **CHEMISTRY RESOURCES IN THE ELECTRONIC AGE**

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*Greenwood Publishing Group* This book lists and reviews the most useful Web sites that provide information on key topics in chemistry.

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### **CHEMICAL ENGINEERING ECONOMICS**

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*Springer Science & Business Media* least, the author wishes to thank his constantly helpful wife Maggie and his secretary Pat Weimer; the former for her patience, encouragement, and for acting as a sounding-board, and the latter who toiled endlessly, cheerfully, and most competently on the book's preparation. CONTENTS Preface / iii 1. INTRODUCTION / 1 Frequently Used Economic Studies / 2 Basic Economic Subjects / 3 Priorities / 3 Problems / 6 Appendixes / 6 References / 6 2. EQUIPMENT COST ESTIMATING / 8 Manufacturers' Quotations / 8 Estimating Charts / 10 Size Factoring Exponents / 11 Inflation Cost Indexes / 13 Installation Factor / 16 Module Factor / 18 Estimating Accuracy / 19 Estimating Example / 19 References / 21 3. PLANT COST ESTIMATES / 22 Accuracy and Costs of Estimates / 22 Cost Overruns / 25 Plant Cost Estimating Factors / 26 Equipment Installation / 28 Instrumentation / 30 v vi CONTENTS Piping / 30 Insulation / 30 Electrical / 30 Buildings / 32 Environmental Control / 32 Painting, Fire Protection, Safety Miscellaneous / 32 Yard

Improvements / 32 Utilities / 32 Land / 33 Construction and Engineering Expense, Contractor's Fee, Contingency / 33 Total Multiplier / 34 Complete Plant Estimating Charts / 34 Cost per Ton of Product / 35 Capital Ratio (Turnover Ratio) / 35 Factoring Exponents / 37 Plant Modifications / 38 Other Components of Total Capital Investment / 38 Off-Site Facilities / 38 Distribution Facilities / 39 Research and Development, Engineering, Licensing / 40 Working Capital / 40

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## **MICROBIOLOGICAL AND CHEMICAL QUALITY OF GROUND WATER USED AS A SOURCE OF PUBLIC SUPPLY IN SOUTHERN MISSOURI**

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### **PHASE II, APRIL-JULY, 1998**

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### **USE OF WATER CHEMISTRY, ISOTOPES, AND CHLOROFLUOROCARBONS TO INVESTIGATE THE SOURCES OF GROUND WATER BENEATH LOUP CITY, CENTRAL NEBRASKA, 2000**

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### **ELECTRICITY INFORMATION 2011**

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*Organization for Economic* "Electricity Information "provides a comprehensive review of historical and current market trends in the OECD electricity sector, including 2010 preliminary data. An Introduction, notes, definitions and auxiliary information are provided in Part I. Part II of the publication provides an overview of the world electricity developments in 2009, covering world electricity and heat production, input fuel mix, supply and consumption, and electricity imports and exports. A greater focus is given to the 34 OECD countries with more detailed information covering production, installed capacity, input energy mix to electricity and heat production, consumption, electricity trades, input fuel prices and end-user electricity prices. Part III of the publication provides a corresponding statistical overview of developments in the world and OECD electricity and heat market, as well as monthly OECD production and trade electricity data for 2009. Part IV provides, in tabular form, detailed and comprehensive statistical coverage of the power and heat industry developments for each of the OECD member countries and for OECD and IEA regional aggregates. It provides comprehensive statistical details on overall energy consumption, economic indicators, electricity and heat production by energy form and plant type, electricity imports and exports, sectoral energy and electricity consumption as well as prices for electricity and electricity input fuels for each country and regional aggregate. "Electricity Information "is one of a series of annual IEA statistical publications on major energy sources; other reports are "Coal Information, " "Natural Gas Information, Oil Information and Renewables Information."

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**INFORMATION CIRCULAR - DEPARTMENT OF ENERGY, MINES AND RESOURCES, MINES BRANCH**

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**MICROBIOLOGICAL AND CHEMICAL QUALITY OF GROUND WATER USED AS A SOURCE OF PUBLIC SUPPLY IN SOUTHERN MISSOURI**

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**PHASE I, MAY 1997-MARCH 1998**

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**INFORMATION RESOURCES IN TOXICOLOGY**

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*Elsevier Publishing Company* **UNITED STATES RESOURCES; BOOK, SPECIAL DOCUMENTS, JOURNAL ARTICLES, JOURNALS, NEWSLETTERS, POPULAR WORKS, COMPUTERIZED INFORMATION SOURCES, ABSTRACTS, INDEXES, CURRENT AWARENESS, AUDIO VISUALS, INFORMATION HANDLING; LEGISLATION AND REGULATORY ISSUES; REGULATION OF CHEMICALS IN THE US, HAZARD COMMUNICATION COMPLIANCE; ORGANIZATIONS, EDUCATION, SCHOOLS, MUTAGENICITY TESTING LABORATORIES IN UNITED STATES; POISON CONTROL CENTERS; INTERNATIONAL RESOURCES.**

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**THERMODYNAMICS FOR SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES**

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*Springer* **This book examines ways of assessing the rational management of nonrenewable resources. Integrating numerous methods, it systematically exposes the strengths of exergy analysis in resources management. Divided into two parts, the first section provides the theoretical background to assessment methods, while the second section provides practical application examples. The topics covered in detail include the theory of exergy cost and thermo-ecological cost, cumulative calculus and life cycle evaluation. This book serves as a valuable resource for researchers looking to investigate a range of advanced thermodynamic assessments of the influence of production processes on the depletion of nonrenewable resources.**

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**POST-ACCIDENT PROCEDURES FOR CHEMICALS AND PROPELLANTS**

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*William Andrew*

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**WOOD-- A SOURCE OF RAW MATERIAL FOR CHEMICAL UTILIZATION**

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**ENCYCLOPEDIA OF ENVIRONMENTAL INFORMATION SOURCES**

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**A SUBJECT GUIDE TO ABOUT 34,000 PRINT AND OTHER SOURCES OF INFORMATION ON ALL ASPECTS OF THE ENVIRONMENT**

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*Gale Group* Includes bibliographical references (p. 1509-1813).

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**EFFECTS OF EMERGING CHEMICAL CONTAMINANTS ON WATER RESOURCES AND ENVIRONMENTAL HEALTH**

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*IGI Global* A major issue that has remained prevalent in today's modern world has been the presence of chemicals within water sources that the public uses for drinking. The associated health risks that accompany these contaminants are unknown but have sparked serious concern and emotive arguments among the global community. Empirical research is a necessity to further understand these contaminants and the effects they have on the environment. *Effects of Emerging Chemical Contaminants on Water Resources and Environmental Health* is a pivotal reference source that provides vital research on current issues regarding the occurrence, toxicology, and abatement of emerging contaminants in water sources. While highlighting topics such as remediation techniques, pollution minimization, and technological developments, this publication explores sample preparation and detection of these chemical contaminants as well as policy and legislative issues related to public health. This book is ideally designed for environmental engineers, biologists, health scientists, researchers, students, and professors seeking further research on the latest developments in the detection of water contaminants.

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**QUARTERLY JOURNAL OF THE CHEMICAL SOCIETY OF LONDON**

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**THE MERCK INDEX**

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**CHEMTRACTS**

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Consists of reviews, condensations, and commentaries.

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**SPECIAL STUDY**

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## **FLOTATION REAGENTS: APPLIED SURFACE CHEMISTRY ON MINERALS FLOTATION AND ENERGY RESOURCES BENEFICIATION**

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### **VOLUME 1: FUNCTIONAL PRINCIPLE**

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*Springer* This book summarizes the author's findings on the functional principle of flotation reagents, gathered over the past few decades. The fundamentals of and approaches common to surface chemistry are applied to study the reagents' structure and performance, as well as their interaction with minerals. In particular, the book establishes the theoretical criteria for collector performance. It also includes the quantum chemistry parameters, steric configuration, HOMO and LUMO surface of various reagents. The book offers a valuable resource for all university graduate students, researchers and R&D engineers in minerals processing and extractive metallurgy who wish to explore innovative reagents and technologies that lead to more energy efficient and environmentally sustainable solutions.

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### **REFERENCE AND SUBSCRIPTION BOOKS REVIEWS**

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### **TOPICAL REFERENCE BOOKS**

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*Bowker-Greenwood* Like the other titles in Bowker's Buying Guide series, it will be extremely useful... Booklist Topical Reference Books selects and recommends today's best specialized reference books. It gives librarians and teachers the help they need to make sound choices in a wide range of subject areas. It provides the titles, authors, publishers and ordering information for building strong collections of essential works, preparing for classes, or researching particular subjects. This book offers expert evaluations of over 2,000 preferred titles in 50 categories, from Advertising and Aging to Women's Studies and Zoology. In each category, you'll find: \*Headnotes that provide background and suggestions for collection development \*Core Titles that identify the most significant books \*At-A-Glance charts to help you determine the suitability of particular works.

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### **CHEMICALS IDENTIFIED IN HUMAN BIOLOGICAL MEDIA. 1982 V. 4**

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### **SCIENTIFIC INFORMATION NOTES**

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## THE ROLE OF THE CHEMICAL SCIENCES IN FINDING ALTERNATIVES TO CRITICAL RESOURCES

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### A WORKSHOP SUMMARY

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*National Academies Press* The Chemical Sciences Roundtable (CSR) was established in 1997 by the National Research Council (NRC). It provides a science oriented apolitical forum for leaders in the chemical sciences to discuss chemistry-related issues affecting government, industry, and universities. Organized by the National Research Council's Board on Chemical Sciences and Technology, the CSR aims to strengthen the chemical sciences by fostering communication among the people and organizations - spanning industry, government, universities, and professional associations - involved with the chemical enterprise. One way it does this is by organizing workshops that address issues in chemical science and technology that require national attention. In September 2011, the CSR organized a workshop on the topic, "The Role of Chemical Sciences in Finding Alternatives to Critical Resources." The one-and-a-half-day workshop addressed key topics, including the economic and political matrix, the history of societal responses to key mineral and material shortages, the applications for and properties of existing minerals and materials, and the chemistry of possible replacements. The workshop featured several presentations highlighting the importance of critical nonfuel mineral and material resources in history, catalysis, agriculture, and electronic, magnetic, and optical applications. The Role of the Chemical Sciences in Finding Alternatives to Critical Resources: A Workshop Summary explains the presentations and discussions that took place at the workshop. In accordance with the policies of the NRC, the workshop did not attempt to establish any conclusions or recommendations about needs and future directions, focusing instead on issues identified by the speakers.

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### ORGANIC CHEMISTRY, THE NAME GAME

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#### MODERN COINED TERMS AND THEIR ORIGINS

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*Pergamon* Organic Chemistry: The Name Game: Modern Coined Terms and their Origins is a lighthearted take on the usually difficult and systematic nomenclature found in organic chemistry. However, despite the lightheartedness, the book does not lose its purpose, which is to serve as a source of information on this particular subject of organic chemistry. The book, arranged into themes, discusses some organic compounds and how they are named based on their structure, makeup, and components. The text also explains the use of Greek and Latin prefixes in nomenclature

and many other principles in nomenclature.

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### **NATURAL RESOURCES USEFUL FOR CHEMICAL PRODUCTS**

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**HEARINGS BEFORE THE COMMITTEE ON INDUSTRIAL ARTS AND EXPOSITIONS, HOUSE OF REPRESENTATIVES, SIXTY-FOURTH CONGRESS, FIRST SESSION, ON H.R. 10650. MAY 11, 1916**

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### **JOURNAL OF THE CHEMICAL SOCIETY**

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"Titles of chemical papers in British and foreign journals" included in Quarterly journal, v. 1-12.

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### **TOXICITY OF SOURCE-ORIENTED AMBIENT SUBMICRON PARTICULATE MATTER**

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### **PHYSICAL AND CHEMICAL OCEANOGRAPHY, AND PHYSICAL RESOURCES**

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*Elsevier* Physical and Chemical Oceanography, and Physical Resources

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**04-2326 - 04-2434**

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### **QUALITY OF HUMAN RESOURCES: EDUCATION - VOLUME II**

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*EOLSS Publications* **Quality of Human Resources: Education** is a component of Encyclopedia of Human Resources Policy, Development and Management which is part of the global Encyclopedia of Life Support Systems (EOLSS), an integrated compendium of twenty one Encyclopedias. The Theme is organized into five different topics which represent the main scientific areas of the theme: Foundations of Educational Systems; Knowledge for Education; Structural Foundations of Educational Systems; Educational Systems: Case Studies and Educational Indices; Education for Sustainable Development. Each of these consists of a topic chapter emphasizing the general aspects and various subject articles explaining the back ground, theory and practice of a specific type of education which is a very important factor in human development and awareness for achieving global sustainable development. These three volumes are aimed at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.