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SNOMYC - CARDENAS LANEY

Trace elements occur naturally in soils and some are essential nutrients for plant growth as well as human and animal health. However, at elevated levels, all trace elements become potentially toxic. Anthropogenic input of trace elements into the natural environment therefore poses a range of ecological and health problems. As a result of their persistence and potential toxicity, trace elements continue to receive widespread scientific and legislative attention. Trace Elements in Soils reviews the latest research in the field, providing a comprehensive overview of the chemistry, analysis, fate and regulation of trace elements in soils, as well as remediation strategies for contaminated soil. The book is divided into four sections: • Basic principles, processes, sampling and analytical aspects: presents an overview including general soil chemistry, soil sampling, analysis, fractionation and speciation. • Long-term issues, impacts and predictive modelling: reviews major sources of metal inputs, the impact on soil ecology, trace element deficient soils and chemical speciation modelling. • Bioavailability, risk assessment and remediation: discusses bioavailability, regulatory limits and cleanup technology for contaminated soils including phytoremediation and trace element immobilization. • Characteristics and behaviour of individual elements Written as an authoritative guide for scientists working in soil science, geochemistry, environmental science and analytical chemistry, the book is also a valuable resource for professionals involved in land management, environmental planning, protection and regulation.

Not so long ago, it seemed the intellectual positions on globalization were clear, with advocates and opponents making their respective cases in decidedly contrasting terms. Recently, however, the fronts have shifted dramatically. The aim of this publication is to contribute philosophical depth to the debates on globalization conducted within various academic fields - principally by working out its normative dimensions. The interdisciplinary nature of this book's contributors also serves to scientifically ground the ethical-philosophical discourse on global responsibility. Though by no means exhaustive, the expansive scope of the works herein encompasses such other topics as the altering consciousness of space and time, and the phenomenon of globalization as a discourse, as an ideology and as a symbolic form.

"...[a] very unique book that integrates benefits of modular systems for enhanced sustainability to meet the global challenges of rapid and sometimes uncontrolled industrialization in the 21st century."--Pinakin Patel, T2M Global This book examines the role of the modular approach for the back end of the energy industry--energy usage management. It outlines the use of modular approaches

for the processes used to improve energy conservation and efficiency, which are preludes to the prudent use of energy. Since energy consumption is conventionally broken down into four sectors--residential, transportation, industrial, and commercial--the discussions on energy usage management are also broken down into these four sectors in the book. The book examines the use of modular systems for five application areas that cover the sectors described above: buildings, vehicles, computers and electrical/electronic products, district heating, and wastewater treatment and desalination. This book also discusses the use of a modular approach for energy storage and transportation. Finally, it describes how the modular approach facilitates bottom-up, top-down, and hybrid simulation and modeling of the energy systems from various scientific and socioeconomic perspectives. Aimed at industry professionals and researchers involved in the energy industry, this book illustrates in detail, with the help of concrete industrial examples, how a modular approach can facilitate management of energy usage.

Beginning with a long and extensively rewritten introduction surveying the predecessors of the Pre-socratics, this book traces the intellectual revolution initiated by Thales in the sixth century BC to its culmination in the metaphysics of Parmenides and the complex physical theories of Anaxagoras and the Atomists in the fifth century it is based on a selection of some six hundred texts, in Greek and a close English translation which in this edition is given more prominence. These provide the basis for a detailed critical study of the principal individual thinkers of the time. Besides serving as an essential text for undergraduate and graduate courses in Greek philosophy and in the history of science, this book will appeal to a wide range of readers with interests in philosophy, theology, the history of ideas and of the ancient world, and indeed to anyone who wants an authoritative account of the Pre-socratics.

This practice-oriented handbook surveys current knowledge on the prediction and prevention of adverse drug reactions related to off-target activity of small molecule drugs. It is unique in collating the current approaches into a single source, and includes several highly instructive case studies that may be used as guidelines on how to improve drug development projects. With its large section on ADME-related effects, this is key knowledge for every drug developer.

A long-overdue advancement in ceramic studies, this volume sheds new light on the adoption and dispersal of pottery by non-agricultural societies of prehistoric Eurasia. Major contributions from Western Europe, Eastern Europe and Asia make this a truly international work that brings together different theories and material for the first time. Researchers and scholars studying the origins and dispersal of pottery, the prehistoric peoples of Eurasia, and flow of ancient technologies will all

benefit from this book.

Introduce your students to the latest advances in spectroscopy with the text that has set the standard in the field for more than three decades: *INTRODUCTION TO SPECTROSCOPY*, 5e, by Donald L. Pavia, Gary M. Lampman, George A. Kriz, and James R. Vyvyan. Whether you use the book as a primary text in an upper-level spectroscopy course or as a companion book with an organic chemistry text, your students will receive an unmatched, systematic introduction to spectra and basic theoretical concepts in spectroscopic methods. This acclaimed resource features up-to-date spectra; a modern presentation of one-dimensional nuclear magnetic resonance (NMR) spectroscopy; an introduction to biological molecules in mass spectrometry; and coverage of modern techniques alongside DEPT, COSY, and HECTOR. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The book derives from the experiences of the authors as lecturers and tutors at different international summer schools on reality-based surveying and 3D modelling in the field of archaeology and cultural heritage. The book is organized in three main sections. The first part aims to introduce and discuss the contribution of geomatic techniques in archaeology and more generally in cultural heritage with particular attentions to the 3D domain. The second part is focused on the main areas involved in the implementation of 3D surveys (aerial and terrestrial LiDAR, photogrammetry, remote sensing), 3D documentations, GIS and 3D interpretations (virtual and cyber archaeology). The last section collects some relevant case studies showing the extraordinary contribution that geomatic techniques can give to archaeological research and cultural heritage at different scales of detail: object, site, landscape.

Since its publication in 1994, Richard McKirahan's *Philosophy Before Socrates* has become the standard sourcebook in Presocratic philosophy. It provides a wide survey of Greek science, metaphysics, and moral and political philosophy, from their roots in myth to the philosophers and Sophists of the fifth century. A comprehensive selection of fragments and testimonia, translated by the author, is presented in the context of a thorough and accessible discussion. An introductory chapter deals with the sources of Presocratic and Sophistic texts and the special problems of interpretation they present. In its second edition, this work has been updated and expanded to reflect important new discoveries and the most recent scholarship. Changes and additions have been made throughout, the most significant of which are found in the chapters on the Pythagoreans, Parmenides, Zeno, Anaxagoras, and Empedocles, and the new chapter on Philolaus. The translations of some passages have been revised, as have some interpretations and discussions. A new Appendix provides translations of three Hippocratic writings and the Derveni papyrus.

"A bibliography of print and online materials available in Albanian, Amharic, Arabic, Bengali, Bosnian, Bulgarian, Chinese, Croatian, Czech, Dutch, English, Estonian, Filipino, Finnish, French, German, Greek, Hindi, Hungarian, Icelandic, Indonesian, Italian, Japanese, Korean, Laotian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Shona, Slovak, Spanish, Swedish, Thai, Turkish, Turkmen, Uzbek, and Vietnamese concerning information literacy."--Résumé de la notice dérivée.

The chemical study of archaeological materials *Archaeological Chemistry*, Second Edition is about the application of the chemical sciences to the study of ancient man and his material activities. The

text of the book centers on the use of chemical methods, but also refers to the contributions of physics, biology, and genetics to archaeological research. Subjects discussed in the book include the determination of the nature of ancient materials, their provenance and age, the technologies used for the production of man-made materials, and the analysis of ancient human and animal remains (such as bone, dried blood, and coprolites), which yields information on ancient diets, kinship, habitancy, and migratory patterns. New developments in analytical chemistry and in related disciplines, which have contributed to archaeological research since the first edition of the book was published, are dealt within this edition, which also includes: * Updated information on the study of the nature, age, and provenance of ancient materials * New sections on organic, biological and genetic studies * Glossary * Extensive bibliography The book is intended primarily for archaeologists, physical anthropologists and students of archaeology and physical anthropology, but will also be of use to conservators, curators, and art historians. Natural scientists reading it will become acquainted with advances in archaeological research which were made possible only by the application of chemical, physical, and biological methods and techniques.

Over the last few years, near-infrared (NIR) spectroscopy has rapidly developed into an important and extremely useful method of analysis. In fact, for certain research areas and applications, ranging from material science via chemistry to life sciences, it has become an indispensable tool because this fast and cost-effective type of spectroscopy provides qualitative and quantitative information not available from any other technique. This book offers a balanced overview of the fundamental theory and instrumentation of NIR spectroscopy, introducing the material in a readily comprehensible manner. A considerable part of the text is dedicated to practical applications, including sample preparation and investigations of polymers, textiles, drugs, food and animal feed. However, special topics, such as two-dimensional correlation analysis, are also covered in separate chapters. Written by eight experts in different fields, this book presents an introduction to the current state of developments and is valuable to spectroscopists and to practitioners applying NIR spectroscopy as a daily analytical tool.

In the introduction to the first volume of *The Arithmetic of Elliptic Curves* (Springer-Verlag, 1986), I observed that "the theory of elliptic curves is rich, varied, and amazingly vast," and as a consequence, "many important topics had to be omitted." I included a brief introduction to ten additional topics as an appendix to the first volume, with the tacit understanding that eventually there might be a second volume containing the details. You are now holding that second volume. It turned out that even those ten topics would not fit. Unfortunately, into a single book, so I was forced to make some choices. The following material is covered in this book: I. Elliptic and modular functions for the full modular group. II. Elliptic curves with complex multiplication. III. Elliptic surfaces and specialization theorems. IV. Neron models, Kodaira-Neron classification of special fibers, Tate's algorithm, and Ogg's conductor-discriminant formula. V. Tate's theory of q -curves over p -adic fields. VI. Neron's theory of canonical local height functions.

Education and training for the library profession have changed over the decades, and this publication looks both at the past and the future of these developments at schools of library and information science as well as the role of IFLA's Section on Education and Training. The chapters cover regional developments in Europe, Asia, Africa, Australia and the Americas; special topics, such as quality

assurance and case studies; and future considerations in LIS education.

This truly comprehensive treatise of foldamers, from synthesis to applications in bio-, material-, and nanoscience is at once an introduction to the topic, while providing in-depth accounts on various aspects clearly aimed at the specialist. The book is clearly structured, with the first part concentrating on structure and foldamer design concepts, while the second part covers functional aspects from properties to applications. The international team of expert authors provides overviews of synthetic approaches as well as analytical techniques.

Citizenship, indigenisation, inter-ethnic marriages and youthful exuberance are the core of WHERE ARE YOU FROM?. The novel questions the true meaning of federalism and highlights the frustration and disappointment young Nigerians face in their quest to succeed in a place where there are differences in background. It is an expose on how one can be lost in a country of one

Understanding the behaviour of gases in the context of radioactive waste disposal is a fundamental requirement in developing a safety case for the disposal of radioactive waste. Of particular importance are the long-term performance of bentonite buffers and cement-based backfill materials that may be used to encapsulate and surround the waste in a repository, and the behaviour of plastic clays, indurated mudrocks and crystalline formations that may be the host rocks for a repository. The EC Euratom programme funded project, FORGE, has provided new insights into the processes and mechanisms governing gas generation and migration with the aim of reducing uncertainty. This volume brings together papers on aspects of this topic arising from both the FORGE project and work undertaken elsewhere. This has been achieved by the acquisition of new experimental data coupled with modelling, through a series of laboratory and field-scale experiments performed at a number of underground research laboratories throughout Europe.

Marine Corps Warfighting Publication (MCWP) 3-16.7, Marine Artillery Survey Operations, sets forth the doctrinal foundation and technical information that Marines need to provide accurate and timely survey support.

Secondary audience: the book will serve as a reference source for researchers and other professionals in environmental engineering and all areas of aquatic chemistry.

The book focusses on atmospheric processes, which directly affect human environments within the lowest 100–1000 meters of the atmosphere over regions of only a few kilometres in extent. The book is the translation into English of the third edition of the German book "Applied Meteorology – Micrometeorological Methods". It presents, with selected examples, the basics of micrometeorology applied to disciplines such as biometeorology, agrometeorology, hydrometeorology, technical meteorology, environmental meteorology, and biogeosciences. The important issues discussed in this book are the transport processes and fluxes between the atmosphere and the underlying surface. Vegetated and heterogeneous surfaces are special subjects. The author covers the areas of theory, measurement techniques, experimental methods, and modelling all in ways that can be used independently in teaching, research, or practical applications.

3D City Models and urban information: Current issues and perspectives European COST Action TU0801R. Billen, A.-F. Cutting-Decelle, O. Marina, J.-P. de Almeida, Cagliioni M., G. Falquet, T. Leduc, C. Métral, G. Moreau, J. Perret, G. Rabin, R. San Jose, I. Yatskiv and S. Zlatanova Considering sustain-

able development of cities implies investigating cities in a holistic way taking into account many interrelations between various urban or environmental issues. 3D city models are increasingly used in different cities and countries for an intended wide range of applications beyond mere visualization. Could these 3D City models be used to integrate urban and environmental knowledge? How could they be improved to fulfill such role? We believe that enriching the semantics of current 3D city models, would extend their functionality and usability; therefore, they could serve as integration platforms of the knowledge related to urban and environmental issues allowing a huge and significant improvement of city sustainable management and development. But which elements need to be added to 3D city models? What are the most efficient ways to realize such improvement / enrichment? How to evaluate the usability of these improved 3D city models? These were the questions tackled by the COST Action TU0801 "Semantic enrichment of 3D city models for sustainable urban development". This book gathers various materials developed all along the four year of the Action and the significant breakthroughs

In recent years there has been a considerable interest in the cultural aspects of tourism such as the impacts of culture on tourism planning, development, management, and marketing. However, the focus has been on material forms of culture such as arts, music, or crafts. The impacts of national culture on tourist behavior and travel decision-making have not been paid much attention. Only in the last two years have cross-cultural issues begun to generate significant interest among academics. An examination of cultural characteristics and differences is extremely important to the tourism industry because today's tourism environment is becoming increasingly international. Information on the nature of the cultural differences between international tourists and locals is not readily available in tourism literature. The concept of culture is very complex and includes such abstract concepts as satisfaction, attitude and loyalty. International Tourism brings these concepts to the undergraduate student in tourism, as well as students in the related fields of marketing, management, international business, and cross-cultural communication. Designed as a textbook, it is organized and presented in an integrated and relevant way for the benefit of a worldwide audience.

This is a textbook on law for computer scientists and many others with no wish to become a lawyer, who are nevertheless in need of a proper introduction to how law operates and how it affects individuals, societies, and others. It introduces: privacy and data protection, cybercrime, copyright, private law liability and legal personhood.

An understanding of the quantum mechanical nature of magnetism has led to the development of new magnetic materials which are used as permanent magnets, sensors, and information storage. Behind these practical applications lie a range of fundamental ideas, including symmetry breaking, order parameters, excitations, frustration, and reduced dimensionality. This superb new textbook presents a logical account of these ideas, starting from basic concepts in electromagnetism and quantum mechanics. It outlines the origin of magnetic moments in atoms and how these moments can be affected by their local environment inside a crystal. The different types of interactions which can be present between magnetic moments are described. The final chapters of the book are devoted to the magnetic properties of metals, and to the complex behaviour which can occur when competing magnetic interactions are present and/or the system has a reduced dimensionality. Throughout the text, the theoretical principles are applied to real systems. There is substantial discussion of experi-

mental techniques and current research topics. The book is copiously illustrated and contains detailed appendices which cover the fundamental principles.

The rapid development of information technology has exacerbated the need for robust personal data protection, the right to which is safeguarded by both European Union (EU) and Council of Europe (CoE) instruments. Safeguarding this important right entails new and significant challenges as technological advances expand the frontiers of areas such as surveillance, communication interception and data storage. This handbook is designed to familiarise legal practitioners not specialised in data protection with this emerging area of the law. It provides an overview of the EU's and the CoE's applicable legal frameworks. It also explains key case law, summarising major rulings of both the Court of Justice of the European Union and the European Court of Human Rights. In addition, it presents hypothetical scenarios that serve as practical illustrations of the diverse issues encountered in this ever-evolving field.

Studies the development of paraphilias and traces their roots to psychological, family, social, and cultural factors

This handbook provides a straightforward introduction to spectroscopy, showing what it can do and how it does it, together with a clear, integrated and objective account of the wealth of information that can be derived from spectra. The sequence of chapters covers a wide range of the electromagnetic spectrum, and the physical processes involved, from nuclear phenomena to molecular rotation processes. - A day-by-day laboratory guide: its design based on practical knowledge of spectroscopists at universities, industries and research institutes - A well-structured information source con-

taining methods and applications sections framed by sections on general topics - Guides users to a decision about which spectroscopic method and which instrumentation will be the most appropriate to solve their own practical problem - Rapid access to essential information - Correct analysis of a huge number of measured spectra data and smart use of such information sources as databases and spectra libraries

The most highly acclaimed pharmacology and toxicology text/reference used in Europe is now available in English. This excellent translation of Mutschler's *Arzneimittelwirkungen* combines a clear, informative narrative with 255 figures, 261 diagrams, and 198 tables to appeal to both new students and experts in pharmacy, pharmacology, and therapeutics. Drug structure and activity relationships are emphasized as an important dimension that is sometimes lacking in other pharmacology texts. *Drug Actions* is organized into three major sections covering general drug action and dosing principles, specific drug therapeutics, and toxicology. The first section provides an integrated overview of basic principles in pharmacology with chapters addressing pharmacokinetics, pharmacodynamics, drug side effects, drug interactions, chronopharmacology, rational and irrational drug combinations as well as drug developments and drug trials. The second section systematically describes specific drug actions with pharmacology, clinical indications, standard doses side effects, and contraindications described for each approved drug category. The third section addresses toxicology where specific drug toxicities are identified and treatment options for accidental and drug associated poisoning are presented. Topics covered include environmental, occupational, and nutritional exposure to toxins.