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Component-based software development (CBD) is an emerging discipline that promises to take software engineering into a new era. Building on the achievements of object-oriented software construction, CBD aims to deliver software engineering from a cottage industry into an industrial age for Information Technology, wherein software can be assembled from components, in the manner that hardware systems are currently constructed from kits of parts. This volume provides a survey of the current state of CBD, as reflected by activities that have been taking place

recently under the banner of CBD, with a view to giving pointers to future trends. The contributions report case studies - self-contained, fixed-term investigations with a finite set of clearly defined objectives and measurable outcomes - on a sample of the myriad aspects of CBD. The book includes chapters dealing with COTS (commercial off-the-shelf) components; methodologies for CBD; compositionality, i.e. how to calculate or predict properties of a composite from those of its constituents; component software testing; and grid computing. Almost all branches of chemistry and material science now interface with organometallic chemistry - the study of compounds containing carbon-metal bonds. This widely acclaimed serial contains authoritative reviews that address all aspects of organometallic chemistry, a field which has expanded enormously since the publication of Volume 1 in 1964. Provides an authoritative, definitive review addressing all aspects of organometallic chemistry Useful to researchers within this active field and a must for every modern library of chemistry High-quality research book within this rapidly developing field This book covers a variety of smart IoT applications for industry and research. For industry, the book is a guide for considering the real-time aspects of automation of application domains. The main topics covered in the industry section include real-time tracking and navigation, smart transport

systems and application for GPS domains, modern electric grid control for electricity industry, IoT prospectives for modern society, IoT for modern medical science, and IoT automation for Industry 4.0. The book then provides a summary of existing IoT research that underlines enabling technologies, such as fog computing, wireless sensor networks, data mining, context awareness, real-time analytics, virtual reality, and cellular communications. The book pertains to researchers, outcome-based academic leaders, as well as industry leaders. This book reports thermodynamic investigation, analyses, and options of temperature/humidity control systems and their technologies for agricultural applications including (but not limited to) fruits and vegetable storage, poultry air-conditioning, livestock thermal comfort, and wet market air-conditioning. The optimum temperature and humidity requirements for these agricultural applications are identified. Consequently, energy-efficient heat pump options are explored accordingly. The book helps to understand and to apply the thermodynamic knowledge of the energy-efficient systems for agricultural applications. Sulfur Compounds: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Sulfur Compounds. The editors have built Sulfur Compounds: Advances in Research and Application: 2011

Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Sulfur Compounds in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Sulfur Compounds: Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. This book provides an introduction to the important methods of chiroptical spectroscopy in general, and circular dichroism (CD) in particular, which are increasingly important in all areas of chemistry, biochemistry, and structural biology. The book can be used as a text for undergraduate and graduate students and as a reference for researchers in academia and industry. Experimental methods and instrumentation are described with topics ranging from the most widely used methods (electronic and vibrational CD) to frontier areas such as nonlinear spectroscopy and photoelectron CD, as well as the theory of chiroptical methods and techniques for simulating chiroptical

properties. Applications of chiroptical spectroscopy to problems in organic stereochemistry, inorganic stereochemistry, and biochemistry and structural biology are also discussed, and each chapter is written by one or more leading authorities with extensive experience in the field. This book focuses on the chemistry and applications of flame retardants for polymers and other materials. It starts with a description and types of flame retardants, as well as their properties and chemical structures, to include chlorine- and bromine-containing flame retardants, phosphorus-based flame retardants, nitrogen-based flame retardants, and silicones. Inorganic materials that serve as flame retardants, such as boron-based additives, graphenes, and others are discussed in detail. In addition, the following subjects are discussed in detail: Flame retardant polymers The mechanisms of flame retardants, such as flame cooling, synergetic effects, degradation of flame retardants, and others Other flame retardant compositions, such as dripping inhibitors and smoke suppressants Testing methods for flame retardants, international standards, human health hazards, such as smoke toxicity and problems with wastes Synthesis and fabrication methods, as well as recycling methods The application of flame retardants to the coating material using 3D printing, reactive coating, and bulk addition methods Non-burning comonomers,

foams, nanocomposites and bio-based materials Flame retardants with other textiles, such as wool and electrical applications such as batteries The Routledge Handbook of Sign Language Pedagogy is the first reference of its kind, presenting contributions from leading experts in the field of sign language pedagogy. The Handbook fills a significant gap in the growing field of sign language pedagogy, compiling all essential aspects of current trends and empirical research in teaching, curricular design, and assessment in one volume. Each chapter includes historical perspectives, core issues, research approaches, key findings, pedagogical implications, future research direction, and additional references. The Routledge Handbook of Sign Language Pedagogy is an essential reference for sign language teachers, practitioners, and researchers in applied sign linguistics and first, second, and additional language learning. How does an extended stay in Japan influence Indian migrants' sense of their identity as they adapt to a country very different from their own? The number of Indians in Japan is increasing. The links between Japan and India go back a long way in history, and the intricacy of their cultures is one of the many factors they have in common. Japanese culture and customs are among the most distinctive and complex in the world, and it is often difficult for foreigners to get used to them. Wadhwa focuses on the Indian Diaspora

in Tokyo, analysing their lives there by drawing on a wealth of interviews and extensive participant observation. She examines their lifestyles, fears, problems, relations and expectations as foreigners in Tokyo and their efforts to create a 'home away from home' in Japan. This book will be of great interest to anthropologists and sociologists concerned with the impact of migration on diaspora communities, especially those focused on Japan, India or both. Recent developments in air pollution modeling are explored as a series of contributions from researchers at the forefront of their field. This book on air quality modeling and its applications is focused on local, urban, regional and intercontinental modeling, data assimilation and air quality forecasting, model assessment and validation, aerosol transformation, the relationship between air quality and human health and the effects of climate change on air quality. It consists of a series of papers that were presented at the 28th NATO/CCMS Conference on Air Pollution Modeling and its Application held in Leipzig, Germany, May 15-19, 2006. It is intended as reference material for students and professors interested in air pollution modeling at the graduate level as well as researchers and professionals involved in developing and utilizing air pollution models.

*Discusses cutting-edge developments on air pollution modeling and air quality issues

*Presents topical and highly

relevant subjects to the air quality and modeling research community *Provides material that can be used to further improve air quality modeling and to inform the community about recent and novel developments in the field

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Prosopis describes the enormous historical importance of these trees as a human food source and reviews the contemporary food science of the fruit derived from these trees. As well, this treatise reviews the native genetic resources of this genus on 4 continents and classical genetic and horticultural techniques that could help stabilize the environment and alleviate human suffering on some of the world's most destitute agro-ecosystems. This book is an essential read for researchers interested in forestry and plant science, environmental science, and functional foods. The legume family (Fabaceae) contains many genera and species that through their nitrogen fixing process provide high protein food and feed for humans and animals. As evidenced by its presence in Death Valley, California, which holds the record for the highest temperatures in the world,

these types of plants can thrive in extreme environments.

Edited by the world's leading experts on Prosopis species with globally recognized contributors Covers the different perspectives surrounding the advantages and disadvantages of planting different Prosopis species

Discusses the applications of Prosopis species, including how the fruits of this tree can be used as a raw food material

The number of organometallic compounds containing heteronuclear metal-metal bonds has grown tremendously in the last ten years. Also known as cluster compounds, these compounds have been found to exhibit a rich diversity of molecular structures and reactivities. Descriptions of the structures and transformations of the complexes are central features. Separate chapters have been prepared for compounds containing bonds between transition metals and the metals of the copper and zinc subgroups. Unlike COMC, this volume contains an entire chapter devoted to studies of heteronuclear metal compounds in catalysis. This edition of Foundations of Software Testing is aimed at the undergraduate, the graduate students and the practicing engineers. It presents sound engineering approaches for test generation, ion, minimization, assessment, and enhancement. Using numerous examples, it offers a lucid description of a wide range of simple to complex techniques for a variety of testing-related tasks. It also discusses the comparative

analyses of commercially available testing tools to facilitate the tool ion. Microbial Resource Technologies for Sustainable Development describes the production and uses of microbial cells and metabolites and reviews the microbial resource technologies associated with providing sustainable solutions options in future endeavors in managing microbial resources. The book includes the recent development and scientific demonstrations of microbial technologies in the relationship between microbes and the environment, focusing on its effective resource management to achieve agricultural and environmental sustainability. Topics covered in the book include recent applications and exploration of the development of Marine Microbial Technologies for marine resources, soil microbes as biopolymers for enhancing mechanical properties of soil, and more. Other topics discussed include rhizosphere microbiome for enhancement of the cereal crops, endophytic fungal communities in crops grown under different farming systems, microbiota of termite for lignocellulose breakdown, microbial consortium technologies to produce biomethane from waste effluents, microbial technologies for sustainable food additives production, biological synthesis of the nanoparticles, fungal cellulases, and efficient biofuel and acetic acid production using waste residues with an emphasis on the commercial exploitation of such microbial

technologies. Discusses the enhancement of plant production through growth-promoting microbes Considers microbial degradation and environmental management of wastes Covers microbial applications in biofuel and bioenergy production Explores plant-microbe interactions for removal of heavy metals from contaminated areas Explains engineered microorganisms for effective bioremediation Describes potential indigenous/effective microbes for food and industrial treatment processes Presents research on microbes for sustainable agricultural practices Understanding the challenges in research and practice of participation in the digital era, and the important role of local governance in achieving the sustainable development goals, Singh explores the complex relationship of community participation, social capital and social networks. Compiled by the editor of Dekker's distinguished Chromatographic Science series, this reader-friendly reference is as a unique and stand-alone guide for anyone requiring clear instruction on the most frequently utilized analytical instrumentation techniques. More than just a catalog of commercially available instruments, the chapters are wri Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace. Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of

organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials. This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry, main group chemistry, the lanthanides and all aspects of transition metal chemistry. Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their

emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume. The identification of the role of tumor stroma—the tissue in the surroundings of cancer cells—in cancer development, progression, and metastasis has revolutionized the fields of cancer biology as well as cancer therapeutics. This book provides a comprehensive overview of this rapidly-evolving field including tumor stroma biology, therapeutic targets, molecular imaging, and advanced tumor stroma in vitro models. The book will serve as a handbook for graduate students, postgraduate researchers, pharmaceutical scientists, and biomedical engineers. This book constitutes revised selected papers from the 14th International Conference on Web Information Systems and Technologies, WEBIST 2018, held in Seville, Spain, in September 2018. The purpose of the WEBIST series of conferences is to bring together researchers, engineers and practitioners interested in technological advances and business applications of web-based information systems. The 12 full papers presented in this volume were carefully reviewed and selected from originally 68 paper submissions. They cover different aspects of Web information systems, namely internet technology, mobile and NLP information systems, service-based information

systems, platforms and eco-systems, Web intelligence and Web interfaces. First published in 1969. Routledge is an imprint of Taylor & Francis, an informa company. BEST: Implementing Career Development Activities for Biomedical Research Trainees provides an instructional guide for institutions wanting to create, supplement or improve their career and professional development offerings. Each chapter provides an exclusive perspective from an administrator from the 17 Broadening Experiences in Scientific Training (BEST) institutions. The book can aid institutions who train graduate students in a variety of careers by teaching faculty and staff how to create and implement career development programming, how to highlight the effectiveness of offerings, how to demonstrate that creating a program from scratch is doable, and how to inform faculty and staff on getting institutional buy-in. This is a must-have for graduate school deans and faculty and staff who want to implement and institutionalize career development programming at their institutions. It is also ideal for graduate students and postdocs. Provides an instructional guide for institutions wanting to create or supplement their career and professional development offerings Contains perspectives from administrators from the 17 Broadening Experiences in Scientific Training (BEST) institutions Addresses what graduate students and

postdoctoral populations can implement now to help broaden career outcomes

Organometallic chemistry is based on the reactions and use of a class of compounds (R-M) that contain a covalent bond between carbon and metal. They are prepared either by direct reaction of the metal with an organic compound or by replacement of a metal from another organometallic substance. Research in organometallic chemistry is also conducted in the areas of cluster synthesis, main-group derivatives in unusual oxidation states, organometallic polymers, unstable organometallic compounds and intermediates in matrices, structure determination of organometallic compounds in the solid state [X-ray diffraction] and gaseous states [electron diffraction], and mechanisms of reactions of transient silylenes and related species. In addition to the traditional metals and semimetals, elements such as selenium, lithium and magnesium are considered to form organometallic compounds, e.g. organomagnesium compounds MeMgI, iodo(methyl)magnesium and diethylmagnesium which are Grignard reagents an organolithium compound BuLi butyllithium. Organometallic compounds often find practical use as catalysts, the processing of petroleum products and the production of organic polymers. High throughput screening remains a key part of early stage drug and tool compound discovery, and

methods and technologies have seen many fundamental improvements and innovations over the past 20 years. This comprehensive book provides a historical survey of the field up to the current state-of-the-art. In addition to the specific methods, this book also considers cultural and organizational questions that represent opportunities for future success. Following thought-provoking foreword and introduction from

Professor Stuart Schreiber and the editors, chapters from leading experts across academia and industry cover initial considerations for screening, methods appropriate for different goals in small molecule discovery, newer technologies that provide alternative approaches to traditional miniaturization procedures, and practical aspects such as cost and resourcing. Within the context of their historical development, authors explain common

pitfalls and their solutions. This book will serve as both a practical reference and a thoughtful guide to the philosophy underlying technological change in such a fast-moving area for postgraduates and researchers in academia and industry, particularly in the areas of chemical biology, pharmacology, structural biology and assay development.

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