Nd Bhatt Engineering Drawing Freesolution

Irrigation EngineeringInnovation in Electrical Power Engineering, Communication, and Computing TechnologyMicrogel SuspensionsTransition MetalsProceedings of the International Conference on Data Engineering 2015 (DaEng-2015)A Text Book of Theory of MachinesComputational Fluid DynamicsInfluenza VirusRecursion: Complexity in CognitionIntroduction to the Theory of ComputationSynthetic AntibodiesNanoscience in MedicineS Chand Higher Engineering MathematicsEnvironmental EngineeringADVANCED REINFORCED CONCRETE DESIGNMycobacteria ProtocolsLeading with QuestionsFluorescence Microscopy and Fluorescent ProbesSurveying and LevellingOrchid Biology: Recent Trends & ChallengesPhytoremediationCorrosion Science and Technology, Third EditionAdvanced Engineering MathematicsSemiconductor Physics And DevicesMicrotechnology for Cell Manipulation and SortingRoot EcologyEngineering DrawingGlobal ClimateThe Carbonic AnhydrasesFungal Applications in Sustainable Environmental BiotechnologyFood Polysaccharides and Their ApplicationsAdvanced Organic ChemistrySolar CellsAdvances in Plant and Animal Boron NutritionThe Theory of MachinesThe Shining GirlsSpace-Filling CurvesAdvances in Artificial Intelligence: From Theory to PracticePediatric Critical CareMachine Drawing [In Front-Angle Projection Method]

Irrigation Engineering

Now you can clearly present even the most complex computational theory topics to your students with Sipser's distinct, market-leading INTRODUCTION TO THE THEORY OF COMPUTATION, 3E. The number one choice for today's computational theory course, this highly anticipated revision retains the unmatched clarity and thorough coverage that make it a leading text for upper-level undergraduate and introductory graduate students. This edition continues author Michael Sipser's well-known, approachable style with timely revisions, additional exercises, and more memorable examples in key areas. A new first-of-its-kind theoretical treatment of deterministic context-free languages is ideal for a better understanding of parsing and LR(k) grammars. This edition's refined presentation ensures a trusted accuracy and clarity that make the challenging study of computational theory accessible and intuitive to students while maintaining the subject's rigor and formalism. Readers gain a solid understanding of the fundamental mathematical properties of computer hardware, software, and applications with a blend of practical and philosophical coverage and mathematical treatments, including advanced theorems and proofs. INTRODUCTION TO THE THEORY OF COMPUTATION, 3E's comprehensive coverage makes this an ideal ongoing reference tool for those studying theoretical computing. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Innovation in Electrical Power Engineering, Communication, and Computing Technology

This book delves into the recent developments in the microscale and microfluidic technologies that allow manipulation at the single and cell aggregate level. Expert

authors review the dominant mechanisms that manipulate and sort biological structures, making this a state-of-the-art overview of conventional cell sorting techniques, the principles of microfluidics, and of microfluidic devices. All chapters highlight the benefits and drawbacks of each technique they discuss, which include magnetic, electrical, optical, acoustic, gravity/sedimentation, inertial, deformability, and aqueous two-phase systems as the dominant mechanisms utilized by microfluidic devices to handle biological samples. Each chapter explains the physics of the mechanism at work, and reviews common geometries and devices to help readers decide the type of style of device required for various applications. This book is appropriate for graduate-level biomedical engineering and analytical chemistry students, as well as engineers and scientists working in the biotechnology industry.

Microgel Suspensions

This book takes a systematic approach to address the gaps relating to nanomedicine and bring together fragmented knowledge on the advances on nanomaterials and their biomedical applicability. In particular, it demonstrates an exclusive compilation of state of the art research with a focus on fundamental concepts, current trends, limitations, and future directions of nanomedicine.

Transition Metals

Proceedings of the International Conference on Data Engineering 2015 (DaEng-2015)

The two-part, fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational chemistry. Part B describes the most general and useful synthetic reactions, organized on the basis of reaction type. It can stand-alone; together, with Part A: Structure and Mechanisms, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for students and exercise solutions for instructors.

A Text Book of Theory of Machines

Updated and revised, this thorough volume provides a selection of the newest methods, as well as some of the basic methods required for a mycobacterial research laboratory. Mycobacteria Protocols, Third Edition guides readers through fractionation and analysis of macromolecules, from nucleic acids to proteins, complex lipids, and metabolites. Detailed and comprehensive protocols are provided for protein and lipid/glycolipid analysis using well-established methods; these are now complemented by a metabolomics chapter in which the complement of metabolites can be profiled. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols and tips on troubleshooting and avoiding known

pitfalls. Authoritative and up-to-date, Mycobacteria Protocols, Third Edition will be a resource both to those working in the field and to newcomers.

Computational Fluid Dynamics

Intended as a companion volume to the author's Limit State Design of Reinforced Concrete (published by Prentice-Hall of India), the Second Edition of this comprehensive and systematically organized text builds on the strength of the first edition, continuing to provide a clear and masterly exposition of the fundamentals of the theory of concrete design. The text meets the twin objective of catering to the needs of the postgraduate students of Civil Engineering and the needs of the practising civil engineers as it focuses also on the practices followed by the industry. This text, along with Limit State Design, covers the entire design practice of revised Code IS456 (2000). In addition, it analyzes the procedures specified in many other BIS codes such as those on winds, earthquakes, and ductile detailing. What's New to This Edition Chapter 18 on Earthquake Forces and Structural Response of framed buildings has been completely revised and updated so as to conform to the latest I.S. Codes 1893 (2002) entitled Criteria for Earthquake Resistant Design of Structures (Part I - Fifth Revision). Chapters 19 and 21 which too deal with earthquake design have been revised. A Summary of elementary design of reinforced concrete members is added as Appendix. Valuable tables and charts are presented to help students and practising designers to arrive at a speedy estimate of the steel requirements in slabs, beams, columns and footings of ordinary buildings.

Influenza Virus

These proceedings gather outstanding research papers presented at the Second International Conference on Data Engineering 2015 (DaEng-2015) and offer a consolidated overview of the latest developments in databases, information retrieval, data mining and knowledge management. The conference brought together researchers and practitioners from academia and industry to address key challenges in these fields, discuss advanced data engineering concepts and form new collaborations. The topics covered include but are not limited to: • Data engineering • Big data • Data and knowledge visualization • Data management • Data mining and warehousing • Data privacy & security • Database theory • Heterogeneous databases • Knowledge discovery in databases • Mobile, grid and cloud computing • Knowledge management • Parallel and distributed data • Temporal data • Web data, services and information engineering • Decision support systems • E-Business engineering and management • E-commerce and e-learning • Geographical information systems • Information management • Information quality and strategy • Information retrieval, integration and visualization • Information security • Information systems and technologies

Recursion: Complexity in Cognition

This book provides researchers with widely used techniques for the study of virology, focusing on molecular biology and imaging to encourage mechanistic investigation of virus-host interactions. Chapters detail a broad range of methods

from diagnosis, virus propagation, proteomics, haploid screening, lentiviral screening, virus entry, single molecule RNA imaging, correlative light and electron microscopy (CLEM), EM, light-sheet microscopy, biochemistry, viral transcription, physiological infection models, animal models, in vivo imaging, antigenic evolution, immunology to mathematical modelling. Reviews cover general influenza, clinical trials, both sides of the gain-of-function debate, and computational modelling. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, Influenza Virus: Methods and Protocols aims to motivate experienced researchers and newcomers in the field and improve our overall understanding of influenza.

Introduction to the Theory of Computation

Fungi are distinct eukaryotic organisms renowned for their remarkable biodiversity and extensive habitat range. Many fungal species have long been exploited for food and medicines. This volume considers other important applications of fungal biotechnology especially in an environmental context, showcasing the essential contributions of these amazingly versatile organisms. It explores how fungi offer sustainable solutions to tackle various environmental concerns. Written by eminent experts in their fields, this work presents a broad array of current advances and future prospects in fungal environmental biotechnology and discusses their limitations and potential. The book is organized in five parts, each addressing a theme of the UN Sustainable Development Goals (SDG): strengthen food security (Zero Hunger), wastewater treatment (Clean Water & Sanitation), pollution reduction (Life on Land), biofuel production (Affordable & Clean Energy) and biosynthesis of novel biomolecules (Responsible Consumption & Production).

Synthetic Antibodies

For Engineering students & also useful for competitive Examination.

Nanoscience in Medicine

This book on "Orchid Biology: Recent Trends & Challenges" reviews the latest strategies for the preservation and conservation of orchid diversity and orchid germplasm. It is an outcome of the Proceedings of the International Symposium on "Biodiversity of Medicinal Plants & Orchids: Emerging Trends and Challenges" held on 9-11 February 2018 at Acharya Nagarjuna University, India. In addition, eminent orchid experts from around the globe were invited to contribute to this book. All chapters were peer-reviewed by international experts. The Orchidaceae are one of the largest families of flowering plants, comprising over 700 genera and 22,500 species and contributing roughly 40 percent of monocotyledons. They also represent the second-largest flowering plant family in India, with 1,141 species in 166 genera, and contribute roughly 10% of Indian flora. Orchids comprise a unique group of plants and their flowers are among the most enchanting and exquisite creations of nature. Phylogenetically and taxonomically, the Orchidaceae are

considered to be a highly evolved family among angiosperms. They show incredible diversity in terms of the shape, size and colour of their flowers, and are of great commercial importance in floriculture markets around the globe. Millions of cut flowers of Cymbidium, Dendrobium, Cattleya, Paphiopedilum, Phalaenopsis, Vanda etc., besides potted orchid plants, are sold in Western Countries and thus, the orchid cut flower industry has now become a multimillion-dollar business in Europe, the USA and South East Asia. Besides their ornamental value, orchids hold tremendous pharmaceutical potential. Root tubers of Habenaria edgeworthii form an important component of the 'Astavarga' group of drugs in Ayurvedic medicine. It is an established fact that tubers of some terrestrial orchids have been used to treat diarrhoea, dysentery, intestinal disorders, cough, cold and tuberculosis. Some orchids, particularly those belonging to the genera Aerides, Arachnis, Cattleya, Cymbidium, Dendrobium, Epidendrum, Oncidium, Paphiopedilum, Phalaenopsis, Renanthera, Vanda etc. have been extensively used to produce internationally acclaimed hybrids. Yet paradoxically, Indian orchids are victims of their own beauty and popularity. As a result, their natural populations have been declining rapidly because of unbridled commercial exploitation in India and abroad. In fact, some orchids are now at the verge of extinction, e.g. Renanthera imschootiana, Diplomeris hirsuta, Paphiopedilum fairrieanum, Cypripedium elegans, Taeniophylum andamanicum etc. Given the global importance of orchids in terms of securing human health and wealth, this comprehensive compilation, prepared by international experts, is highly topical. Its content is divided into five main sections: (I) Cryopreservation & Biotechnology, (II) Orchid Biodiversity & Conservation, (III) Anatomy & Physiology, (IV) Pollination Biology and (V) Orchid Chemicals & Bioactive Compounds. All contributions were written by eminent orchid experts/professors from around the world, making the book a valuable reference guide for all researchers, teachers, orchid enthusiasts, orchid growers and students of biotechnology, botany, pharmaceutical sciences and ethnomedicine. It will be equally valuable for readers from the horticultural industry, especially the orchid industry, agricultural scientists and policymakers.

S Chand Higher Engineering Mathematics

Many leaders are unaware of the amazing power of questions. Ourconversations may be full of requests and demands, but all toooften we are not asking for honest and informative answers, and wedon't know how to listen effectively to responses. Whenleaders start encouraging questions from their teams, however, theybegin to see amazing results. Knowing the right questions toask—and the right way to listen—will give any leaderthe skills to perform well in any situation, effectivelycommunicate a vision to the team, and achieve lasting successacross the organization. Thoroughly revised and updated, Leading with Questionswill help you encourage participation and teamwork, fosteroutside-the-box thinking, empower others, build relationships withcustomers, solve problems, and more. Michael Marquardt reveals howto determine which questions will lead to solutions to even themost challenging issues. He outlines specific techniques of activelistening and follow-up, and helps you understand how questions canimprove the way you work with individuals, teams, andorganizations. This new edition of Leading with Questions draws oninterviews with thirty leaders, including eight whose stories arenew to this edition. These interviews tell stories from a range ofcountries, including Singapore, Guyana, Korea, and Switzerland, andfeature case

studies from prominent firms such as DuPont, Alcoa,Novartis, and Cargill. A new chapter on problem-solving will helpyou apply questions to your toughest situations as a leader, and anew "Questions for Reflection" section at the end ofeach chapter will help you bring Marquardt's message into allof your work as a leader. Now more than ever, Leading with Questions is thedefinitive guide for becoming a stronger leader byidentifying—and asking—the right questions.

Environmental Engineering

The two-volume set LNCS 10350 and 10351 constitutes the thoroughly refereed proceedings of the 30th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2017, held in Arras, France, in June 2017. The 70 revised full papers presented together with 45 short papers and 3 invited talks were carefully reviewed and selected from 180 submissions. They are organized in topical sections: constraints, planning, and optimization; data mining and machine learning; sensors, signal processing, and data fusion; recommender systems; decision support systems; knowledge representation and reasoning; navigation, control, and autonome agents; sentiment analysis and social media; games, computer vision; and animation; uncertainty management; graphical models: from theory to applications; anomaly detection; agronomy and artificial intelligence; applications of argumentation; intelligent systems in healthcare and mhealth for health outcomes; and innovative applications of textual analysis based on AI.

ADVANCED REINFORCED CONCRETE DESIGN

An introduction to CFD fundamentals and using commercial CFD software to solve engineering problems, designed for the wide variety of engineering students new to CFD, and for practicing engineers learning CFD for the first time. Combining an appropriate level of mathematical background, worked examples, computer screen shots, and step by step processes, this book walks the reader through modeling and computing, as well as interpreting CFD results. The first book in the field aimed at CFD users rather than developers. New to this edition: A more comprehensive coverage of CFD techniques including discretisation via finite element and spectral element as well as finite difference and finite volume methods and multigrid method. Coverage of different approaches to CFD grid generation in order to closely match how CFD meshing is being used in industry. Additional coverage of high-pressure fluid dynamics and meshless approach to provide a broader overview of the application areas where CFD can be used. 20% new content

Mycobacteria Protocols

This volume provides an overview of the most important current controversies in the field of pediatric intensive care. Organized into sections based on organ systems, the text focuses on controversies surrounding disease processes of the cardiac, respiratory, gastrointestinal, hematologic / immunologic, endocrine, and neurologic systems. Each chapter reviews the pros and cons of specific management approaches through case studies and the most up-to-date evidence-based resources, and concludes with bulleted take-home points for ease of use.

Written by experts in the field, Pediatric Critical Care: Current Controversies is a valuable resource for intensivists, advanced practice providers, nurses, and other health care providers involved in the care of critically-ill children.

Leading with Questions

The present book provides an introduction to using space-filling curves (SFC) as tools in scientific computing. Special focus is laid on the representation of SFC and on resulting algorithms. For example, grammar-based techniques are introduced for traversals of Cartesian and octree-type meshes, and arithmetisation of SFC is explained to compute SFC mappings and indexings. The locality properties of SFC are discussed in detail, together with their importance for algorithms. Templates for parallelisation and cache-efficient algorithms are presented to reflect the most important applications of SFC in scientific computing. Special attention is also given to the interplay of adaptive mesh refinement and SFC, including the structured refinement of triangular and tetrahedral grids. For each topic, a short overview is given on the most important publications and recent research activities.

Fluorescence Microscopy and Fluorescent Probes

This text details the plant-assisted remediation method, "phytoremediation", which involves the interaction of plant roots and associated rhizospheric microorganisms for the remediation of soil contaminated with high levels of metals, pesticides, solvents, radionuclides, explosives, crude oil, organic compounds and various other contaminants. Each chapter highlights and compares the beneficial and economical alternatives of phytoremediation to currently practiced soil removal and burial practices. This book covers state of the art approaches in Phytoremediation written by leading and eminent scientists from around the globe. Phytoremediation: Management of Environmental Contaminants, Volume 1 supplies its readers with a multidisciplinary understanding in the principal and practical approaches of phytoremediation from laboratory research to field application.

Surveying and Levelling

This volume focuses on recursion and reveals a host of new theoretical arguments, philosophical perspectives, formal representations and empirical evidence from parsing, acquisition and computer models, highlighting its central role in modern science. Noam Chomsky, whose work introduced recursion to linguistics and cognitive science and other leading researchers in the fields of philosophy, semantics, computer science and psycholinguistics in showing the profound reach of this concept into modern science. Recursion has been at the heart of generative grammar from the outset. Recent work in minimalism has put it at center-stage with a wide range of consequences across the intellectual landscape. The contributor to this volume both advance the field and provide a cross-sectional view of the place that recursion takes in modern science.

Orchid Biology: Recent Trends & Challenges

Phytoremediation

Corrosion Science and Technology, Third Edition

The jaw-dropping, page-turning, critically-acclaimed book of the year: a serial-killer thriller unlike any other from the award-winning Lauren Beukes. 'GONE GIRL has not exactly gone. But THE SHINING GIRLS have arrived' (The Times).

Advanced Engineering Mathematics

This book has received very good response from students and teachers within the country and abroad alike.Its previous edition exhausted in a very short time.I place on record my sense of gratitude to the students and teachers for their appreciation of my work,which has offered me an opportunity to bring out this revised Eighteenth Edition.Due to the demand of students a chapter on Linear Programming as added.A large number of new examples and problems selected from the latest question papers of various engineering examinations held recently have been included to enable the students to understand the latest trend.

Semiconductor Physics And Devices

Carbonic anhydrase (CA) is a seemingly ubiquitous enzyme of profound physiological importance, which plays essential roles in respiration, acid-base homeostasis, bone resorption, calcification, photosynthesis, several biosynthetic pathways and a variety of processes involving ion, gas and fluid transfer. This enzyme, which is present in at least three gene families (a, ß, ?), has found favour as a model for the study of evolution of gene families and for site-directed mutagenesis in structure/function relationships, for protein folding and for transgenic and gene target studies. Since the early use of CA inhibitors as diuretics and in treating congestive heart failure, the enzyme has been target of considerable clinical attention. Much of this is now focused on endeavours to produce a new generation of such drugs for the effective treatment of glaucoma and other potential applications. Recent data, suggesting links between CA and various disease processes, including cancer, have stimulated further

Microtechnology for Cell Manipulation and Sorting

Root Ecology

Twenty years after its first publication, Corrosion Science and Technology continues to be a relevant practical guide for students and professionals interested in material science. This Third Edition thoroughly covers the basic principles of corrosion science in the same reader-friendly manner that made the previous edition invaluable, and enlarges the scope of the content with expanded chapters on processes for various metals and new technologies for limiting costs and metal degradation in a variety of commercial enterprises not explored in previous

editions. This book also presents expertly developed methods of corrosion testing and prediction.

Engineering Drawing

This book features selected high-quality papers from the International Conference on Innovation in Electrical Power Engineering, Communication, and Computing Technology (IEPCCT 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on 13–14 December 2019. Presenting innovations in power, communication, and computing, it covers topics such as mini, micro, smart and future power grids; power system economics; energy storage systems; intelligent control; power converters; improving power quality; signal processing; sensors and actuators; image/video processing; high-performance data mining algorithms; advances in deep learning; and optimization methods.

Global Climate

The Carbonic Anhydrases

This book reviews all aspects of boron research in recent years and is based on the Third International Symposium on all Aspects of Plant and Animal Boron Nutrition. This includes B sorption mechanisms in soils, deficiency and toxicity of B, B fertilizer application and basic research on the physiology and molecular biology of plant B nutrition, and nutritional function of B in animals and humans.

Fungal Applications in Sustainable Environmental Biotechnology

In the course of evolution, a great variety of root systems have learned to overcome the many physical, biochemical and biological problems brought about by soil. This development has made them a fascinating object of scientific study. This volume gives an overview of how roots have adapted to the soil environment and which roles they play in the soil ecosystem. The text describes the form and function of roots, their temporal and spatial distribution, and their turnover rate in various ecosystems. Subsequently, a physiological background is provided for basic functions, such as carbon acquisition, water and solute movement, and for their responses to three major abiotic stresses, i.e. hard soil structure, drought and flooding. The volume concludes with the interactions of roots with other organisms of the complex soil ecosystem, including symbiosis, competition, and the function of roots as a food source.

Food Polysaccharides and Their Applications

Advanced Organic Chemistry

Completely covers the diploma syllabus of various State Boards of Technical Education and AMIE Section ⬚ B for the course in Environmental Engineering.

Solar Cells

Throughout the Earth's history, the climate and biosphere have evolved together through a complex chain of interactions, making possible the extraordinary variety of ecosystems and life. These interactions also largely determine the response of the atmosphere to increasing quantities of greenhouse gases caused by human activity. Since the climate system has great inertia, this means that we will have to long bear the consequences of our past and present actions, perhaps in the form of unprecedented climate change. In this book, opinions from experts in different areas provide a detailed snapshot of the current "hotspots" in the mechanisms affecting climate system on our planet. By addressing and clarifying key topics of current climate research, it contributes to a clearer understanding of the factors underlying the debate over global warming

Advances in Plant and Animal Boron Nutrition

This detailed volume presents a set of protocols useful for researchers in the field of recombinant immunoglobulin and alternative scaffold engineering, aptamer development, and generation of molecularly imprinted polymers (MIPs). Part I includes methods that deal with amino-acid based synthetic antibodies. Brief protocols about the generation of antibody libraries are detailed, as well as techniques for antibody selection, characterization, and validation. This section is completed by a brief description of a bioinformatics platform that supports antibody engineering during research and development. Part II contains basic procedures about the selection and characterization of aptamer molecules, and Part III describes fundamental processes of MIP generation and application. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Synthetic Antibodies: Methods and Protocols is an ideal guide for scientists seeking to propel the vital study of antibody research.

The Theory of Machines

Fluorescence microscopy images can be easily integrated into current video and computer image processing systems. People like visual observation; they like to watch a television or computer screen, and fluorescence techniques are thus becoming more and more popular. Since true in vivo experiments are simple to perform, samples can be directly seen and there is always the possibility of manipulating the samples during the experiments; it is an ideal technique for biology and medicine. Images are obtained by a classical (now called wide-field) fluorescence microscope, a confocal scanning microscope, upright or inverted, with epifluorescence or transmission. Computerized image processing may improve definition, and remove glare and scattered light signal. It also makes it possible to compute ratio images (ratio imaging both in excitation and in emission) or lifetime imaging. Image analysis programs may supply a great deal of additional data of various types, starting with calculations of the number of fluorescent objects, their shapes, brightness, etc. Fluorescence microscopy data may be complemented by

classical measurement in the cuvette yr by flow cytometry.

The Shining Girls

Providing a vital link between chemistry and physics on the nanoscale, this book offers concise coverage of the entire topic in five major sections, beginning with synthesis of microgel particles and continuing with their physical properties. The phase behavior and dynamics of resulting microgel suspensions feature in the third section, followed by their mechanical properties. It concludes with detailed accounts of numerous industrial, commercial and medical applications. Edited by David Weitz, Professor at Harvard and one of the world's pre-eminent experts in the field.

Space-Filling Curves

Engineering Drawing, 2e continues to cover all the fundamental topics of the field, while maintaining its unique focus on the logic behind each concept and method. Based on extensive market research and reviews of the first edition, this edition includes a new chapter on scales, the latest version of AutoCAD, and new pedagogy. The coverage of topics has been made more clear and concise through over 300 solved examples and exercises, with new problems added to help students work progressively through them. Combining technical accuracy with readable explanations, this book will be invaluable to both first-year undergraduate engineering students as well as those preparing for professional exams.

Advances in Artificial Intelligence: From Theory to Practice

Comprehensive in scope, Food Polysaccharides and Their Applications, Second Edition explains the production aspects and the chemical and physical properties of the main classes of polysaccharaides consumed as food, highlighting their nutritional value and their technological characteristics. Chapters in this new edition detail the source, biosynthesis, molecular structures, and physical properties of polysaccharides. They also explore production and uses in food formulations; the effects of cooking and interactions with proteins, lipids, sugars, and metal ions; analytical methods, including identification and quantitative determination; and nutritional and ecological considerations with emphasis on genetic engineering of food crops. The editors carefully balance coverage of fundamental aspects and practical implications for the food industry. What's New in the Second Edition: Explains the preparation of new starch esters and improved techniques for the production of acid-converted and oxidized starches Details new information on the natural functions of cell wall polysaccharides of seeds in relation to their molecular structures, biosynthesis and enzymatic hydrolysis Presents additional references that include those relating to IR and NMR spectrometric methods of analysis

Pediatric Critical Care

This book addresses the rapidly developing class of solar cell materials and designed to provide much needed information on the fundamental principles of

these materials, together with how these are employed in photovoltaic applications. A special emphasize have been given for the space applications through study of radiation tolerant solar cells. This book present a comprehensive research outlining progress on the synthesis, fabrication and application of solar cells from fundamental to device technology and is helpful for graduate students, researchers, and technologists engaged in research and development of materials.

Machine Drawing [In Front-Angle Projection Method]

In this book, the authors present topical research in the study of the characteristics, properties and uses of transition metals. Topics discussed include the non-linear optical properties of transition metal nanoparticles synthesised by ion implantation; the structural and magnetic characterisation of Cu-Picolinate and Cu-Quinaldinate molecular systems; application of transition metals as active compounds in separation techniques; the reactivity of unstable chemicals in the presence of transition metals and the bioinorganic and redox reactions in biological systems of transition metals.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES &
HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR
LITERARY FICTION NON-FICTION SCIENCE FICTION