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Direct Digital Frequency Synthesizers Scour and Erosion Nuclear Magnetic Resonance Motivational Perspectives on Chronic Pain Robust Control Pediatrics Examination and Board Review Nonlinear System Dynamics Anticoagulation Management 18 years GATE Electronics Engineering Topic-wise Solved Papers (2000 - 17) with 4 Online Practice Sets 4th Edition Water Justice Advances in Time-Delay Systems Fungal Physiology and Immunopathogenesis The American Psychiatric Publishing Textbook of Substance Abuse Treatment Immunology of Psoriatic Disease Advanced Nanomaterials and Their Applications in Renewable Energy Bionanocomposites for Packaging Applications Kidney Development in Renal Pathology China Satellite Navigation Conference (CSNC 2024) Proceedings NO70 Encyclopedia of Polymer Applications, 3 Volume Set Network and Signal Theory Molecular Mechanisms of Proton-coupled Electron Transfer and Water Oxidation in Photosystem II Routledge Handbook of Ergonomics in Sport and Exercise SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban, Utility, Lifeline Systems and Critical Facilities Protein quality assessment in follow-up formula for young children and ready to use therapeutic foods Climate Change 2014: Mitigation of Climate Change Oxford Textbook of Neurorehabilitation Neurogastroenterology - Focus on the Gut-Brain Axis The Thyroid and Its Diseases Natural Molecules in Neuroprotection and Neurotoxicity Orbital Tumors Microbial Diversity, Interventions and Scope Hazard-causing System and Assessment of Water and Mud Inrush in Tunnel Earthquake Disaster Simulation of Civil Infrastructures Maxillofacial Surgery Nutanix Enterprise Cloud

Direct Digital Frequency Synthesizers 1998-11-18

with the advent of integrated circuits digital systems have become widely used in modern electronic devices including communications and measurement equipment direct digital frequency synthesizers dds are used in communications as transmitter exciters and local oscillators in receivers the advantages are superior frequency stability the same as that of the driving clock oscillator and short switching times the difficulties are lower output frequencies and rather large spurious signals compiled for practicing engineers who do not have the prerequisite of a specialist's knowledge in direct digital frequency synthesizers dds this collection of 40 important reprinted papers and 9 never before published contributions presents a comprehensive introduction to dds properties and a clear understanding of actual devices the information in this volume can lead to easier computer simulations and improved designs featured topics include discussion of principles and state of the art of wide range dds investigation of spurious signals in dds combination of dds with phase lock loops pll examination of phase and background noise in dds introduction to digital to analog conversion dac analysis of mathematics of quasiperiodic omission of pulses ddfs can also serve as a textbook for students seeking essential background theory

Scour and Erosion 2014-11-06

the 7th international conference on scour and erosion icse 2014 was organised by the school of civil environmental and mining engineering and the centre for offshore foundation systems at the university of western australia under the guidance of the technical committee 213 for scour and erosion of the international society of soil mechanics and

Nuclear Magnetic Resonance 2015-05-12

applications of nuclear magnetic resonance span a wide range of scientific disciplines from physics to medicine this series has provided an essential digest of the nmr literature for more than four decades and each volume provides unrivalled coverage of the literature on this topic continuous coverage on some topics such as theoretical and physical aspects of nuclear shielding is balanced by the desire for coverage on newer topics like applications in biological systems and materials science for those wanting to become rapidly acquainted with nmr or seasoned practitioners this is an invaluable source of current methods and applications

Motivational Perspectives on Chronic Pain 2018-08-07

motivational perspectives on chronic pain is one of the first volumes to present a cohesive account of the adaptation to chronic pain from a motivational perspective contributing authors from diverse areas of pain research offer comprehensive summaries of the concepts findings and applied methodologies that converge on the role of goals and goal related cognitive processes self regulatory support mechanisms contextual forces and emotionality as they influence and are influenced by the experience of chronic pain this volume provides readers with an up to date compendium of cutting edge research and interventions that collectively illustrate the utility of viewing chronic pain neither as a disease nor an imposed lifestyle but as the emergent and potentially flexible product of a complex transactional system that is bounded by both sociocultural factors and by biogenetic and neural moderating forces within its pages chapters capture the vibrancy of current theory research and practice while pointing toward unexplored new directions among the important topics addressed by this distinguished group of authors include the nature and relevance of control systems the role of neural mechanisms on pain processing the influence positive and negative emotion regulation play on pain management the impact of learning and conditioning and the often neglected influence of

interpersonal processes on adjustment to chronic pain

Robust Control 2012-12-06

new results fresh ideas and new applications in automotive and flight control systems are presented in this second edition of robust control the book presents parametric methods and tools for the simultaneous design of several representative operating conditions and several design specifications in the time and frequency domains it also covers methods for robustness analysis that guarantee the desired properties for all possible values of the plant uncertainty a lot of practical application experience enters into the case studies of driver support systems that avoid skidding and rollover of cars automatic car steering systems flight controllers for unstable aircraft and engine out controllers the book also shows the historic roots of the methods their limitations and research needs in robust control

Pediatrics Examination and Board Review 2016-10-21

an engagingly written case based review for the pediatrics board exam mcgraw hill education specialty board review pediatrics is the perfect resource to help you prepare for the american board of pediatrics abp certification or recertification examination written in a refreshing conversational tone this unique review utilizes a case based presentation that includes questions answers and discussion numerous tables figures and photographs encapsulate important information and make it easier for readers to study and remember the content is weighted to match the board exam so you can focus on what you really need to know for the highest score possible the 35 chapters in the book correspond to the 35 sections of the abp content specifications each chapter is written by specialists in the topic comprehensive final exam appears at the end of the book great as clinical refresher each question is referenced to chapter content for more in depth study

Nonlinear System Dynamics 2012-12-06

engineers scientists and applied mathematicians are habitually curious about behavior of physical systems more often than not they will model the system and then analyze the model hoping to expose the system s dynamic secrets traditionally linear methods have been the norm and nonlinear effects were only added peripherally this bias for linear techniques arises from the consummate beauty and order in linear subspaces and the elegance of linear independence is too compelling to be denied and the bias has been in the past fortified by the dearth of nonlinear procedures rendering the study of nonlinear dynamics untidy but now a new attractiveness is being conferred on that nondescript patchwork and the virtue of the hidden surprises is gaining deserved respect with a wide variety of individual techniques available the student and the engineer as well as the scientist and researcher are faced with an almost overwhelming task of which to use to help achieve an understanding sufficient to reach a satisfying result if linear analysis predicts system behavior sufficiently close to reality that is delightful in the more likely case where nonlinear analysis is required we believe this text fills an important void we have tried to compile and bring some order to a large amount of information and techniques that although well known is scattered we have also extended this knowledge base with new material not previously published

Anticoagulation Management 2015-10-02

in addition to acting as a training guide for pharmacists pharmacy residents and pharmacy students who seek to practice in areas associated with patients on anticoagulant therapy the information presented within highlights the growing role of the pharmacist in these contexts readers will find

useful information on anticoagulant management across all pharmacy practice areas including the inpatient ambulatory emergency services and transitions of care settings particular attention is given to summarizing best practices and providing real world examples of ways in which pharmacists can be involved in anticoagulation management and the impact of such involvement in the first major section of the book each chapter focuses on the role of the pharmacist in the management of medication with a specific type of anticoagulants e.g warfarin heparin and target specific oral agents in various healthcare settings a broader overview of the clinical management of anticoagulation therapy is provided in the second major section including descriptions of the role of pharmacists in assessing venous thromboembolism risk ensuring patients receive appropriate prophylactic therapy and monitoring outcomes

18 years GATE Electronics Engineering Topic-wise Solved Papers (2000 - 17) with 4 Online Practice Sets 4th Edition 2017-08-01

18 years gate electronics communication engineering topic wise solved papers 2000 17 the book covers fully solved past 18 years question papers from the year 2000 to the year 2017 the salient features are the book has 3 sections general aptitude engineering mathematics and technical section each section has been divided into topics aptitude 2 parts divided into 9 topics engineering mathematics 7 topics and technical section 8 each chapter has 3 parts quick revision material past questions and the solutions the quick revision material list the main points and the formulas of the chapter which will help the students in revising the chapter quickly the past questions in each chapter have been divided into 5 types 1 conceptual mcqs2 problem based mcqs3 common data type mcqs4 linked answer type mcqs5 numerical answer questionsthe questions have been followed by detailed solutions to each and every question in all the book contains 1800 milestone questions for gate electronics communication engineering

Water Justice 2018-03-15

an overview of critical conceptual approaches to water justice illustrated with global historic and contemporary case studies of socio environmental struggles

Advances in Time-Delay Systems 2012-12-06

in the mathematical description of a physical or biological process it is a common practice to assume that the future behavior of the process considered depends only on the present state and therefore can be described by a finite set of ordinary differential equations this is satisfactory for a large class of practical systems however the existence of time delay elements such as material or information transport of time renders such description unsatisfactory in accounting for important behaviors of many practical systems indeed due largely to the current lack of effective methodology for analysis and control design for such systems the time delay elements are often either neglected or poorly approximated which frequently results in analysis and simulation of insufficient accuracy which in turn leads to poor performance of the systems designed indeed it has been demonstrated in the area of automatic control that a relatively small delay may lead to instability or significantly deteriorated performances for the corresponding closed loop systems

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Fungal Physiology and Immunopathogenesis 2019-09-03

this volume offers an overview of the various aspects involved in the ability of fungi to damage host cells and discusses cutting edge approaches to the study of fungal pathogenesis the first chapter illustrate the key roles of glycans and pigments the most abundant surface components in fungal cells in their interactions with host cells the connections between cellular physiology and fungal pathogenesis are then discussed in the following chapters physiology related processes affecting pathogenesis include fungal secretion morphological transitions and response to light in turn the book illustrates mechanisms of damage to host cells using the histoplasma capsulatum model of infection and reviews the use of transcriptomic approaches to understand the mechanisms of interaction between fungal cells and host tissues after a discussion of the immunological mechanisms underlying host susceptibility to fungal infections the book s closing contribution reviews the mechanisms of interaction between fungi and other microbes and the impact of this association on fungal pathogenesis given its scope the book will appeal to scientists in the fields of mycology microbiology infectious diseases biology and medicine

The American Psychiatric Publishing Textbook of Substance Abuse Treatment 2015-04-01

no other text available today offers what the american psychiatric publishing textbook of substance abuse treatment can completely updated treatment information on a broad range of substance use disorders that is consistent with the new dsm 5 classification and thus reflective of how psychiatry is practiced today designed for researchers and mental health professionals ranging from trainee to licensed practitioner the book is also appropriate for a diverse array of rehabilitation settings from inpatient to community based treatment full coverage is provided on 12 step programs as well including the latest outcomes research much of the material is new to this edition a chapter has been added on science in the treatment of substance abuse in which the authors discuss the history of scientific intervention in substance abuse and explore what happens to the brain when addicting drugs are consumed review animal models and imaging techniques and discuss current progress in the science of addiction chapters have been added on screening and brief intervention reflecting the development of brief screening tools and research on the efficacy of interventions and the role of recovery in chronic care disease management specifically what the treatment models for alcohol dependence and for diabetes can effectively borrow from each other a new chapter focuses on the treatment of alcohol intoxication and withdrawal the first steps in treatment of alcohol use disorder two chapters on marijuana one on the neurobiology and one addressing treatment have been added given the accelerating trend toward decriminalization and legalization of this substance clinicians will find this information of increasing importance the section on substance use issues among gay men and lesbians has been expanded to include bisexual and transgender people in recognition of increased diversity among the population well structured with topics that follow logically and many practical treatment oriented features such as quick reference tables and lists of recommended readings the american psychiatric publishing textbook of substance abuse treatment is a classic that will enhance the education and practice of clinicians

Immunology of Psoriatic Disease 2019-07-31

psoriasis is a chronically relapsing inflammatory skin disorder affecting about 2 of the worldwide population the disease is associated with important systemic manifestations including cardiovascular comorbidities and metabolic syndrome in addition about 30 of patients develop joint inflammation known as psoriatic arthritis psa our knowledge on the pathogenesis of psoriasis has dramatically expanded in the last decade suggesting the existence or co existence of both auto immune and auto

inflammatory components skin lesions develop from a complex interplay between keratinocytes vascular endothelium dendritic cells and t cells generating a self sustaining inflammatory cycle within this cycle epidermal cd8 t lymphocytes specific for self antigens may represent the major autoimmune mechanism despite the recent progress in the comprehension of the pathogenesis of psoriasis many questions remain open ranging from the plaque initiating events to the characterization of the autoimmune autoinflammatory components of the disease the mechanisms that link cutaneous psoriasis to its extra cutaneous and systemic manifestations also remain vague in this research topic we invited top scientists to summarize the front line research in the field of immunology of cutaneous psoriasis and its systemic and joint manifestations our intention was to integrate the pillar concepts of psoriasis immunopathology with the most novel insights aiming at providing an advanced view of this rapidly evolving and fascinating field

Advanced Nanomaterials and Their Applications in Renewable Energy 2015-08-06

advanced nanomaterials and their applications in renewable energy presents timely topics related to nanomaterials feasible synthesis and characterization and their application in the energy fields in addition the book provides insights and scientific discoveries in toxicity study with information that is easily understood by a wide audience advanced energy materials are important in designing materials that have greater physical electronic and optical properties this book emphasizes the fundamental physics and chemistry underlying the techniques used to develop solar and fuel cells with high charge densities and energy conversion efficiencies new analytical techniques synchronous x ray which probe the interactions of particles and radiation with matter are also explored making this book an invaluable reference for practitioners and those interested in the science provides a comprehensive review of solar energy fuel cells and gas storage from 2010 to the present reviews feasible synthesis and modern analytical techniques used in alternative energy explores examples of research in alternative energy including current assessments of nanomaterials and safety contains a glossary of terms units and historical benchmarks presents a useful guide that will bring readers up to speed on historical developments in alternative fuel cells

Bionanocomposites for Packaging Applications 2017-11-21

this book presents a unified overview of eco friendly bionanocomposites on the basis of characterization design manufacture and application it also explores replacing conventional materials with bionanocomposites with a focus on their use in packaging applications in addition the book broadens readers insights by providing illustrations and tables summarizing the latest research on the packaging applications of different bionanocomposites by offering a detailed account of this field of research and describing real world applications it enables researchers scientists and professionals in industry to develop a more informed understanding of the need for bionanocomposites in the development of green biodegradable and sustainable packaging applications

Kidney Development in Renal Pathology 2014-08-09

this volume provides a comprehensive state of the art review in the field of experimental and human nephrogenesis the book reviews new data on the effects on kidney development by neonatal asphyxia obstructive uropathies nephrotoxic drugs malnutrition underfeeding overfeeding and provides all possible preventive measures to ensure the well being of the kidney at birth the book also discusses the possible implications between renal development and the insurgence of kidney disease in adult life and the correlation with renal carcinogenesis written by well recognized experts in their fields kidney development in renal pathology is a valuable tool for pathologists neonatologists

nephrologists gynecologists and researchers with an interest in kidney diseases

China Satellite Navigation Conference (CSNC 2024) Proceedings 2023-12-03

this book presents selected research papers from china satellite navigation conference csnc 2024 held in jinan china on 22 24 may 2024 these papers discuss the technologies and applications of the global navigation satellite system gnss and in particular the latest advances in the china beidou system bds they are divided into 8 topics to match the corresponding sessions at csnc 2024 which broadly covered key topics in gnss readers learn about the bds and keep abreast of the latest advances in gnss technologies and applications

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undoubtedly the applications of polymers are rapidly evolving technology is continually changing and quickly advancing as polymers are needed to solve a variety of day to day challenges leading to improvements in quality of life the encyclopedia of polymer applications presents state of the art research and development on the applications of polymers this groundbreaking work provides important overviews to help stimulate further advancements in all areas of polymers this comprehensive multi volume reference includes articles contributed from a diverse and global team of renowned researchers it offers a broad based perspective on a multitude of topics in a variety of applications as well as detailed research information figures tables illustrations and references the encyclopedia provides introductions classifications properties selection types technologies shelf life recycling testing and applications for each of the entries where applicable it features critical content for both novices and experts including engineers scientists polymer scientists materials scientists biomedical engineers macromolecular chemists researchers and students as well as interested readers in academia industry and research institutions

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the book reviews photosynthetic water oxidation and proton coupled electron transfer in photosystem focusing on the molecular vibrations of amino acid residues and water molecules photosynthetic water oxidation performed by plants and cyanobacteria is essential for the sustenance of life on earth not only as an electron source for synthesizing sugars from co₂ but also as an o₂ source in the atmosphere water oxidation takes place at the mn₄cao₅ cluster in photosystem ii where a series of electron transfer reactions coupled with proton transfer occur using light energy the author addresses the unresolved mechanisms of photosynthetic water oxidation and relevant proton coupled electron transfer reactions using a combined approach of experimental and computational methods such as fourier transform infrared difference spectroscopy and quantum chemical calculations the results show that protonation and hydrogen bond structures of water molecules and amino acid residues in the protein play important roles in regulation of the electron and proton transfer reactions these findings and the methodology make a significant contribution to our understanding the molecular mechanism of photosynthetic water oxidation

Encyclopedia of Polymer Applications, 3 Volume Set 1973

ergonomics is concerned with the fit between people and their work with an increasing number of people becoming conscious about their health and participating in sport or physical activity ergonomics has become an increasingly prominent concern within the sport and exercise sciences from the design of footwear and artificial playing surfaces to studies of proprioception by obese

children the way in which people interact with their environment designed and natural has important implications for performance sport and for the design of safe and beneficial forms of physical activity the routledge handbook of ergonomics in sport and exercise is the first book to offer a comprehensive and in depth survey of cutting edge scientific research into ergonomics in sport and exercise written by world leading international scientists and researchers the book explores key topics such as musculoskeletal adaptation to sports and exercise environmental factors of injury and fatigue load weight and performance ergonomics in adapted sports and exercise measurement in sports and exercise modeling and simulation in ergonomics design influence of playing surface footwear and equipment design bridging the gap between fundamental scientific research in sport and exercise and applications in sport and exercise contexts this is an important reference for all advanced students researchers and professionals working in sport and exercise science kinesiology sports technology sports engineering ergonomics and product design

Network and Signal Theory 2020-01-03

syner g a multidisciplinary effort funded by the european union allowed the development of an innovative methodological framework for the assessment of physical as well as socio economic seismic vulnerability and risk at urban and regional level the results of syner g are presented in two books both published by springer the present and a second one entitled syner g typology definition and fragility functions for physical elements at seismic risk buildings lifelines transportation networks and critical facilities which provides a comprehensive state of the art of the fragility curves an alternative way to express physical vulnerability of elements at risk in this second volume of syner g the focus has been on presenting a unified holistic methodology for assessing vulnerability at systems level considering interactions between elements at risk physical and non physical and between different systems the proposed methodology and tool encompasses in an integrated fashion all aspects in the chain from hazard to the vulnerability assessment of components and systems and to the socio economic impacts of an earthquake accounting for most relevant uncertainties within an efficient quantitative simulation scheme it systematically integrates the most advanced fragility functions to assess the vulnerability of physical assets for buildings utility systems transportation networks and complex infrastructures such as harbours and hospitals the increasing impact due to interactions between different components and systems is treated in a comprehensive way providing specifications for each network and infrastructure the proposed socio economic model integrates social vulnerability into the physical systems modelling approaches providing to decision makers with a dynamic platform to capture post disaster emergency issues like shelter demand and health impact decisions application examples at city and regional scale have provided the necessary validation of the methodology and are also included in the book the present volume with its companion volume on fragility functions represent a significant step forward in the seismic vulnerability and risk assessment of complex interacting urban and regional systems and infrastructures these volumes are not only of interest to scientists and engineers but also to the insurance industry decision makers and practitioners in the sector of civil protection and seismic risk management pitilakis k crowley e kaynia a eds 2014 syner g typology definition and fragility functions for physical elements at seismic risk series geotechnical geological and earthquake engineering 27 isbn 978 94 007 7872 6 springer science business media dordrecht

Molecular Mechanisms of Proton-coupled Electron Transfer and Water Oxidation in Photosystem II 2013-12-04

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Routledge Handbook of Ergonomics in Sport and Exercise 2014-06-19

consistent with the need to provide safe food for young children particularly during the complementary feeding period between 12 and 36 months and the period of rapid development to age 59 months the food and agriculture organization of the united nations fao convened an expert working group the fao headquarters rome italy from 6 to 9 november 2017 the meeting addressed questions related to protein quality evaluation in two distinct products used to feed children in different conditions ready to use therapeutic food rutf and follow up formula for young children fuf yc specific meeting objectives were to determine the appropriate comparative protein or amino acid reference pattern to define protein quality for use in fuf yc and rutf to provide guidance on the preferred protein quality assessment methodology that should be stipulated with the standards for fuf yc and rutf to provide guidance on the measurement of protein and amino acid digestibility to provide the appropriate reference amino acid profiles and the amino acid composition of common ingredients used for fuf yc and rutf to provide cost implications for countries to use pdcaas in fuf yc and rutf this report provides future research recommendations including the need to generate data on the true ileal digestibility for different protein sources so that digestible indispensable amino acid score diaas values can be used in the future

SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban, Utility, Lifeline Systems and Critical Facilities 2012-02-09

this latest fifth assessment report of the ipcc will again form the standard reference for all those concerned with climate change and its consequences

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part of the oxford textbooks in clinical neurology series this textbook will provide the reader with an understanding of the theoretical underpinnings of neurorehabilitation as well as a clear idea about how and why to approach treatment decisions in individual patients

Protein quality assessment in follow-up formula for young children and ready to use therapeutic foods 2015-01-26

this book is an up to date and comprehensive guide to all the common thyroid disorders that may be seen by internists endocrinologists nuclear medicine physicians and endocrine surgeons while the fundamentals of thyroid hormone function and regulation in health and disease are well covered the primary focus is on the clinical approach to thyroid disease with detailed coverage of both initial diagnosis and management and the role of imaging because most endocrine diseases are chronic and lifelong special emphasis is placed on long term management and the common pitfalls that may be encountered by the clinician the editors are internationally acknowledged leaders in the field of thyroid disease and have gathered an outstanding team of authors all of whom are also highly expert in their respective areas but who equally importantly write in a clear and lucid style the numerous isotope scan and ultrasonographic images ensure that the book will serve as a valuable reference atlas to which the physician will return again and again

Climate Change 2014: Mitigation of Climate Change 2015

natural molecules in neuroprotection and neurotoxicity brings together research in the area of natural compounds and their dual effects of neuroprotection and neurotoxicity when interacting with brain cells this book is organized into four sections that address molecular mechanism underlying neuroprotection and neurotoxicity neuroprotection mediated by natural molecules neurotoxicity induced by natural compounds and nanotechnology related strategies utilized in neuroprotection written by well known researchers all over the world chapters provide an in depth analysis of numerous molecules such as algae plant and fungus derived molecules and comprehensively discuss their mechanisms of action and possible clinical applications this book provides an essential reference for researchers and clinical scientists interested in the effects of natural compounds on the human health and disease covers both neuroprotective and neurotoxic outcomes resulted from the exposure of brain cells to natural molecules analyzes numerous natural compounds including animal vegetal fungal bacterial and marine derived molecules discusses the effects of the metabolism of microbiota on the biotransformation of natural molecules and the consequences of these processes on brain cells contains a section focused on the nanotechnology related strategies utilized to enhance the bioavailability of natural molecules to brain cells

Oxford Textbook of Neurorehabilitation 2021-04-13

orbital tumors 2nd edition discusses advances in orbital disease and their treatment offering readers an up to date single volume reference for orbital tumors divided into two parts this book covers everything from advances in oncogenesis and its relationship to orbital tumors to medical genetics and the role of imaging in diagnosis of orbital tumors additionally new information on incidence and behavior of tumors resulting from environmental and social trends is included written and edited by leaders in the fields of ophthalmology and oncology orbital tumors 2nd edition builds upon the first edition proving to be a useful reference for orbital specialists and of significant interest for everyone dealing with orbital pathology from a clinical and scientific point of view

Neurogastroenterology - Focus on the Gut-Brain Axis 2019-01-08

this book focuses on the application of microbes in all fields of biology there is an urgent need to understand and explore new microbes their biological activities genetic makeup and further opportunities for utilizing them the book is divided into sections highlighting the application of microbes in agriculture nanotechnology genetic engineering bioremediation industry medicine and forensic sciences and describing potential future advances in these fields it also explores the potential role of microbes in space and how they might support life on a different planet

The Thyroid and Its Diseases 2023-11-24

this book is composed of eight chapters introducing the authors research and application achievements in the hazard causing system and disaster evaluation of water and mud inrush in tunnels over the past 10 years through a large number of case studies and analysis and on the basis of existing research this book puts forward 3 categories and 11 types of tunnel water and mud inrush hazard causing systems and 4 typical water and mud inrush disaster forming modes the authors carefully study the typical cases of tunnel water and mud inrush hazard causing system discuss the types of karst water system structural characteristics macro geological identification engineering identification karst tunnel route selection principles and evaluation methods in detail and then develop a dynamic evaluation method of tunnel water and mud inrush construction risk interval and

an evaluation method for the resistance body ultimately the authors put forward a systematic identification method of tunnel water and mud inrush disaster which integrates geological identification geophysical exploration identification and drilling identification and construct a dynamic management and analysis platform for tunnel water and mud inrush cases this book is used as a reference book for teachers graduate students and undergraduates in colleges and universities of civil engineering transportation water conservancy and hydropower mining geology etc and also as a reference for technicians in related engineering fields

Natural Molecules in Neuroprotection and Neurotoxicity

2014-10-20

the first edition of this monograph presenting accurate and efficient simulations of seismic damage to buildings and cities has received significant attention from the research community to keep abreast of the rapid development in recent years our latest breakthrough achievements have been added to this new edition including novel resilient structural components secondary disaster simulations emergency responses and resilient recovery of communities after earthquake this edition comprehensively covers a range of numerical modeling approaches higher performance computation methods and high fidelity visualization techniques for earthquake disaster simulation of tall buildings and urban areas it also demonstrates successful engineering applications of the proposed methodologies to typical landmark projects e g shanghai tower and citic tower two of the world s tallest buildings beijing cbd and san francisco bay area reported in this edition are a collection of about 60 high impact journal publications which have already received high citations

Orbital Tumors 2020-06-25

now in full color maxillofacial surgery 3rd edition covers the entire specialty of maxillofacial surgery including craniofacial deformity oral surgery trauma and oncology unlike other omfs texts where the contributors are singly boarded in oral surgery this richly illustrated text boasts omfs contributors who are all dual boarded in both oral surgery and medicine thoroughly updated with evidence based content it addresses the advances in technology and procedures providing oral and maxillofacial surgeons with new and exciting treatment options and with print and digital formats it is easy to use in any setting authoritative guidance on oral and maxillofacial surgery by internationally recognized experts in the field 2 800 illustrations including radiographs and full color artwork and clinical photos provide clinicians and oms residents with a clear visual guide to diagnoses key concepts and surgical techniques as well as examples of preoperative and postoperative results a multidisciplinary approach reflects the best practices in the disciplines of oral and maxillofacial surgery head and neck surgery plastic surgery and otolaryngology covers contemporary techniques and technological advances at the forefront of maxillofacial surgery evidence based content supports the newest most up to date diagnostic and therapeutic options available for a wide variety of clinical problems key points and pitfalls boxes clearly identify the most important information as well as potential problem areas that can arise when treating patients available in print and digital formats that can be easily accessed via mobile tablets and smart phones in any setting making it perfect for the modern student of surgery new full color images clearly depict pathologies concepts and procedures expanded and updated expanded from 82 to 111 chapters with thoroughly revised content that reflects current information and advances in oms so clinicians and students can depend on this text as their go to resource on oral maxillofacial surgery new 29 new state of the art chapters covering new topics including the salivary glands thyroid and parathyroid glands tissue engineering navigational surgery 3d modeling and lasers in omfs new two new editors professors brennan and schliephake and new section editors and contributors have helped bring advances in the field of oral and maxillofacial surgery and offer a fresh perspective updated expanded chapter on cancer keeps you in the know

2023-07-05

11/13

Microbial Diversity, Interventions and Scope 2023-05-18

nutanix hci hyper converged infrastructure
nutanix enterprise cloud
ahv
nutanix flow software defined network
self service portal
calm
nutanix

Hazard-causing System and Assessment of Water and Mud Inrush in Tunnel 2021-02-01

designing user interfaces for an aging population towards universal design

Earthquake Disaster Simulation of Civil Infrastructures 2016-12-09

Maxillofacial Surgery 2019-05-24

Nutanix Enterprise Cloud IT 2019-11-30

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