

Access Free Environmental Studies By Deswal Databy Pdf File Free

Data Analytics and Management Genome Editing in Drug Discovery Polycystic Ovary Syndrome Textbook of Environmental Studies for Undergraduate Courses Handbook of Quantitative Criminology **Advances in Communication and Computational Technology** **Proceedings of Indian Geotechnical and Geoenvironmental Engineering Conference (IGGEC) 2021, Vol. 1** Recent Advances in iPSC Disease Modeling, Volume 1 Decision Forests **Spectral, Photon Counting Computed Tomography** **Information and Communication Technology for Intelligent Systems** Identification and Characterization of Contrasting Genotypes/Cultivars to Discover Novel Players in Crop Responses to Abiotic/Biotic Stresses Proceedings of the International Conference on Industrial and Manufacturing Systems (CIMS-2020) **Proceedings of the International Conference on Signal, Networks, Computing, and Systems** Text Book of Environmental Studies **International Conference on Innovative Computing and Communications** **Artificial Neural Networks in Chemical Engineering** Principles of Biochemistry and Genetic Engineering Vegetation Dynamics Smart Homes and Health Telematics, Designing a Better Future: Urban Assisted Living **Heart Rate Variability, Health and Well-being: A Systems Perspective** Randomization in Clinical Trials Genetic Enhancement of Crops for Tolerance to Abiotic Stress: Mechanisms and Approaches, Vol. I **Pediatric Heart Failure** **International Conference on Innovative Computing and Communications** A Textbook of Engineering Mathematics (For First Year, Anna University) A Textbook of Engineering Physics **The Health Disparities Myth** Communicative English For Engineers And Professionals Nanobiotechnology Applications in Plant Protection **Epigenome Editing** **Metal Soaps in Art** Hospitalization for Congestive Heart Failure **Biomarkers in Cardiovascular Disease** Cancer Mortality and Morbidity Patterns in the U.S. Population **Research in the Biomedical Sciences** Smart Homes and Health Telematics Emerging Energetic Materials: Synthesis, Physicochemical, and Detonation Properties **Methods and Applications of Computational Immunology** **Genetic Cardiomyopathies**

Text Book of Environmental Studies Aug 19 2021

Principles of Biochemistry and Genetic Engineering May 16 2021

International Conference on Innovative Computing and Communications Jul 18 2021 This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21–23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Nanobiotechnology Applications in Plant Protection May 04 2020 Nanobiotechnology Applications in Plant Protection: Volume 2 continues the important and timely discussion of nanotechnology applications in plant protection and pathology, filling a gap in the literature for nano applications in crop protection. Nanobiopesticides and nanobioformulations are examined in detail and presented as powerful alternatives for eco-friendly management of plant pathogens and nematodes. Leading scholars discuss the applications of nanobiomaterials as antimicrobials, plant growth enhancers and plant nutrition management, as well as nanodiagnostic tools in phytopathology and magnetic and supramagnetic nanostructure applications for plant protection. This second volume includes exciting new content on the roles of biologically synthesized nanoparticles in seed germination and zinc-based nanostructures in protecting against toxigenic fungi. Also included is new research in phytotoxicity, nano-scale fertilizers and nanomaterial applications in nematology and discussions on Botrytis grey mold and nanobiocontrol. This book also explores the potential effects on the environment, ecosystems and consumers and addresses the implications of intellectual property for nanobiopesticides. Further discussed are nanotoxicity effects on the plant ecosystem and nano-applications for the detection, degradation and removal of pesticides.

Communicative English For Engineers And Professionals Jun 04 2020

Handbook of Quantitative Criminology Jun 28 2022 Quantitative criminology has certainly come a long way since I was first introduced to a largely qualitative criminology some 40 years ago, when I was recruited to lead a task force on science and technology for the President's Commission on Law Enforcement and Administration of Justice. At that time, criminology was a very limited activity, depending almost exclusively on the Uniform Crime Reports (UCR) initiated by the FBI in 1929 for measurement of crime based on victim reports to the police and on police arrests. A typical mode of analysis was simple bivariate correlation. Marvin Wolfgang and colleagues were making an important advance by tracking longitudinal data on arrests in Philadelphia, an innovation that was widely appreciated. And the field was very small: I remember attending my first meeting of the American Society of Criminology in about 1968 in an anteroom at New York University; there were about 25–30 people in attendance, mostly sociologists with a few lawyers thrown in. That Society today has over 3,000 members, mostly now drawn from criminology which has established its own

clear identity, but augmented by a wide variety of disciplines that include statisticians, economists, demographers, and even a few engineers. This Handbook provides a remarkable testimony to the growth of that field. Following the maxim that “if you can’t measure it, you can’t understand it,” we have seen the early dissatisfaction with the UCR replaced by a wide variety of new approaches to measuring crime victimization and offending.

Cancer Mortality and Morbidity Patterns in the U.S. Population Nov 29 2019 The purpose of this book is to examine the etiology of cancer in large human populations using mathematical models developed from an inter-disciplinary perspective of the population epidemiological, biodemographic, genetic and physiological basis of the mechanisms of cancer initiation and progression. In addition an investigation of how the basic mechanism of tumor initiation relates to general processes of senescence and to other major chronic diseases (e.g., heart disease and stroke) will be conducted.

Proceedings of the International Conference on Signal, Networks, Computing, and Systems Sep 19 2021 The book is a collection of high-quality peer-reviewed research papers presented in the first International Conference on Signal, Networks, Computing, and Systems (ICSNCS 2016) held at Jawaharlal Nehru University, New Delhi, India during February 25–27, 2016. The book is organized in two volumes and primarily focuses on theory and applications in the broad areas of communication technology, computer science and information security. The book aims to bring together the latest scientific research works of academic scientists, professors, research scholars and students in the areas of signal, networks, computing and systems detailing the practical challenges encountered and the solutions adopted.

Genetic Enhancement of Crops for Tolerance to Abiotic Stress: Mechanisms and Approaches, Vol. I Dec 11 2020 Abiotic stresses such as drought (water deficit), extreme temperatures (cold, frost and heat), salinity (sodicity) and mineral (metal and metalloid) toxicity limit productivity of crop plants worldwide and are big threats to global food security. With worsening climate change scenarios, these stresses will further increase in intensity and frequency. Improving tolerance to abiotic stresses, therefore, has become a major objective in crop breeding programs. A lot of research has been conducted on the regulatory mechanisms, signaling pathways governing these abiotic stresses, and cross talk among them in various model and non-model species. Also, various ‘omics’ platforms have been utilized to unravel the candidate genes underpinning various abiotic stresses, which have increased our understanding of the tolerance mechanisms at structural, physiological, transcriptional and molecular level. Further, a wealth of information has been generated on the role of chromatin assembly and its remodeling under stress and on the epigenetic dynamics via histones modifications. The book consolidates outlooks, perspectives and updates on the research conducted by scientists in the abovementioned areas. The information covered in this book will therefore interest workers in all areas of plant sciences. The results presented on multiple crops will be useful to scientists in building strategies to counter these stresses in plants. In addition, students who are beginners in the areas of abiotic stress tolerance will find this book handy to clear their concepts and to get an update on the

research conducted in various crops at one place

Randomization in Clinical Trials Jan 12 2021 Praise for the First Edition “All medical statisticians involved in clinical trials should read this book...” - Controlled Clinical Trials Featuring a unique combination of the applied aspects of randomization in clinical trials with a nonparametric approach to inference, Randomization in Clinical Trials: Theory and Practice, Second Edition is the go-to guide for biostatisticians and pharmaceutical industry statisticians. Randomization in Clinical Trials: Theory and Practice, Second Edition features: Discussions on current philosophies, controversies, and new developments in the increasingly important role of randomization techniques in clinical trials A new chapter on covariate-adaptive randomization, including minimization techniques and inference New developments in restricted randomization and an increased focus on computation of randomization tests as opposed to the asymptotic theory of randomization tests Plenty of problem sets, theoretical exercises, and short computer simulations using SAS® to facilitate classroom teaching, simplify the mathematics, and ease readers’ understanding Randomization in Clinical Trials: Theory and Practice, Second Edition is an excellent reference for researchers as well as applied statisticians and biostatisticians. The Second Edition is also an ideal textbook for upper-undergraduate and graduate-level courses in biostatistics and applied statistics. William F. Rosenberger, PhD, is University Professor and Chairman of the Department of Statistics at George Mason University. He is a Fellow of the American Statistical Association and the Institute of Mathematical Statistics, and author of over 80 refereed journal articles, as well as The Theory of Response-Adaptive Randomization in Clinical Trials, also published by Wiley. John M. Lachin, ScD, is Research Professor in the Department of Epidemiology and Biostatistics as well as in the Department of Statistics at The George Washington University. A Fellow of the American Statistical Association and the Society for Clinical Trials, Dr. Lachin is actively involved in coordinating center activities for clinical trials of diabetes. He is the author of Biostatistical Methods: The Assessment of Relative Risks, Second Edition, also published by Wiley.

Advances in Communication and Computational Technology May 28 2022 This book presents high-quality peer-reviewed papers from the International Conference on Advanced Communication and Computational Technology (ICACCT) 2019 held at the National Institute of Technology, Kurukshetra, India. The contents are broadly divided into four parts: (i) Advanced Computing, (ii) Communication and Networking, (iii) VLSI and Embedded Systems, and (iv) Optimization Techniques. The major focus is on emerging computing technologies and their applications in the domain of communication and networking. The book will prove useful for engineers and researchers working on physical, data link and transport layers of communication protocols. Also, this will be useful for industry professionals interested in manufacturing of communication devices, modems, routers etc. with enhanced computational and data handling capacities.

Decision Forests Feb 22 2022 Presents a unified, efficient model of random decision forests which can be used in a number of applications such as scene recognition from photographs, object recognition in images, automatic diagnosis from radiological scans

and document analysis.

Genetic Cardiomyopathies Jun 24 2019 In the last decade, genetics has been emerging as a primary issue in the diagnosis and management of cardiomyopathies. This book is intended to be a state-of-the-art monograph on these diseases, describing their genetic causes, defining the molecular basis and presenting extensive descriptions of genotype–phenotype correlations. Other chapters are focused on the role of clinical observation, on ECG and echocardiography. With its highlight on the most recent discoveries in the field of molecular genetics as well as on the correct clinical approach to patients with heart muscle disease, the book is aimed at physicians and clinical cardiologists with a particular interest in myocardial diseases and in their genetic causes.

The Health Disparities Myth Jul 06 2020 The authors of this book conclude that differences in treatment vary by race but not because of it.

Epigenome Editing Apr 02 2020 This detailed book explores the concepts and applications of epigenome editing, as presented by leading scientists in the field. Beginning with some general and topical reviews, the collection continues by covering the design of DNA-binding devices, optimization of the effector domains, readout of epigenome marks, and approaches for delivery at the cellular and organismal level. 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, *Epigenome Editing: Methods and Protocols* will be of great assistance to people new to the field but also to those already engaged, as epigenetic editing is still a relatively unexplored field with many issues to be resolved.

Identification and Characterization of Contrasting Genotypes/Cultivars to Discover Novel Players in Crop Responses to Abiotic/Biotic Stresses Nov 21 2021

Smart Homes and Health Telematics Sep 27 2019 This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Smart Homes and Health Telematics, ICOST 2014, held in Denver, CO, USA in June 2014. The 21 revised full papers presented together with three keynote papers and 9 short papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on Design and Usability, assistive and sentient environments, cognitive technology, activity recognition, context and situation awareness, Health IT and short contributions.

Proceedings of the International Conference on Industrial and Manufacturing Systems (CIMS-2020) Oct 21 2021 In order to deal with the societal challenges novel technology plays an important role. For the advancement of technology, Department of Industrial and Production Engineering under the aegis of NIT Jalandhar is organizing an “International Conference on Industrial and Manufacturing Systems” (CIMS-2020) from 26th -28th June, 2020. The present conference aims at providing a leading forum for sharing original research contributions and real-world developments in the field of Industrial and Manufacturing Systems so as to contribute its share

for technological advancements. This volume encloses various manuscripts having its roots in the core of industrial and production engineering. Globalization provides all around development and this development is impossible without technological contributions. CIMS-2020, gathered the spirits of various academicians, researchers, scientists and practitioners, answering the vivid issues related to optimisation in the various problems of industrial and manufacturing systems.

A Textbook of Engineering Physics Aug 07 2020 A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Vegetation Dynamics Apr 14 2021 Understanding ecosystem structure and function requires familiarity with the techniques, knowledge and concepts of the three disciplines of plant physiology, remote sensing and modelling. This is the first textbook to provide the fundamentals of these three domains in a single volume. It then applies cross-disciplinary insights to multiple case studies in vegetation and landscape science. A key feature of these case studies is an examination of relationships among climate, vegetation structure and vegetation function, to address fundamental research questions. This book is for advanced students and researchers who need to understand and apply knowledge from the disciplines of plant physiology, remote sensing and modelling. It allows readers to integrate and synthesise knowledge to produce a holistic understanding of the structure, function and behaviour of forests, woodlands and grasslands.

Artificial Neural Networks in Chemical Engineering Jun 16 2021 This book introduces readers to the Artificial Neural Network (ANN) and Hybrid Neural (HN) models: two effective tools, which can be exploited to design and control industrial processes. Different topics including modeling, simulation and process design are covered. More efficient analyses and descriptions of real case studies, ranging from membrane technology to the obtaining of second-generation biofuels are also provided. One of the major advantages of the described techniques is represented by the possibility of obtaining accurate predictions of complex systems, whose behaviors might be difficult to describe by conventional first-principle models. One of the major impacts of the present book is to show the true interactions and interconnectivities among different topics belonging to chemical, bio-chemical engineering, energy, bio-processes and bio-technique research fields. Some of the main goals are here are to provide a deep and detailed knowledge about the main features of both ANN and HN models, and to iterate possible topologies to integrate in these ANN and mechanistic models; to cover a wide spectrum of different problems as well as innovative and unconventional modeling techniques; to show how various kinds of advanced models can be exploited either to predict the behavior or to optimize the performance of real processes.

Methods and Applications of Computational Immunology Jul 26 2019

Emerging Energetic Materials: Synthesis, Physicochemical, and Detonation Properties Aug 26 2019 This book summarizes science

and technology of a new generation of high-energy and insensitive explosives. The objective is to provide professionals with comprehensive information on the synthesis and the physicochemical and detonation properties of the explosives. Potential technologies applicable for treatment of contaminated wastestreams from manufacturing facilities and environmental matrices are also included. This book provides the reader an insight into the depth and breadth of theoretical and empirical models and experimental techniques currently being developed in the field of energetic materials. It presents the latest research by DoD engineers and scientists, and some of DoD's academic and industrial researcher partners. The topics explored and the simulations developed or modified for the purposes of energetics may find application in other closely related fields, such as the pharmaceutical industry. One of the key features of the book is the treatment of wastewaters generated during manufacturing of these energetic materials.

Biomarkers in Cardiovascular Disease Dec 31 2019 Get a quick, expert overview of the ways in which biomarkers can be used to assess and guide the management of cardiovascular disease in the clinical setting. This concise, clinically-focused resource by Dr. Vijay Nambi consolidates today's available information on this rapidly changing topic into one convenient resource, making it an ideal, easy-to-digest reference for cardiology practitioners, fellows, and residents. Covers lab standards and statistical interpretation of biomarkers with a clinical focus. Discusses relevant conditions such as hypertension and diabetes as key markers of injury and prognosis. Includes current information on biomarkers to assess and guide the management of heart failure, acute coronary syndrome, chest pain, shortness of breath, and more. Concludes the book with a timely chapter on how biomarkers may guide cardiologists in the future.

Heart Rate Variability, Health and Well-being: A Systems Perspective Feb 10 2021 The development of a new tool, analytic device, or approach frequently facilitates rapid growth in scientific understanding, although the process is seldom linear. The study of heart rate variability (HRV) defined as the extent to which beat-to-beat variation in heart rate varies, is a rapidly maturing paradigm that integrates health and wellness observations across a wide variety of biomedical and psychosocial phenomena and illustrates this nonlinear path of development. The utility of HRV as an analytic and interventive technique goes far beyond its original application as a robust predictor of sudden cardiac death. This Research Topic aims to provide a conceptual framework to use in exploring the utility of HRV as a robust parameter of health status, using a broad and inclusive definition of 'health' and 'well-being'. From the broadest perspective, current biomedical science emerged from shamanistic and religious healing practices and empirically observed interventions made as humans emerged from other hominins. The exponential growth of physics, chemistry and biology provided scientific support for the model emphasizing pathology and disorders. Even before the momentous discovery of germ theory, sanitation and other preventive strategies brought about great declines in mortality and morbidity. The revolution that is currently expanding the biomedical model is an integrative approach that includes the wide variety of non-physio/chemical factors that contribute to health. In the integrative approach, health is understood to be more than the absence of disease and emphasis is placed on

optimal overall functioning, within the ecological niche occupied by the organism. This approach also includes not just interventive techniques and procedures, but also those social and cultural structures that provide access to safe and effective caring for sufferers. Beyond the typical drug and surgical interventions - which many identify with the Western biomedical model that currently enjoys an unstable hegemony - such factors also include cognitive-behavioral, social and cultural practices such as have been shown to be major contributors to the prevention and treatment of disease and the promotion of health and optimal functioning. This Integrative Model of Health and Well-being also derives additional conceptual power by recognizing the role played by evolutionary processes in which conserved, adaptive human traits and response tendencies are not congruent with current industrial and postindustrial global environmental demands and characteristics. This mismatch contributes to an increasing incidence of chronic conditions related to lifestyle and health behavior. Such a comprehensive model will make possible a truly personalized approach to health and well-being, including and going far beyond the current emphasis on genomic analysis, which has promised more than it has currently delivered. HRV offers an inexpensive and easily obtained measure of neurovisceral functioning which has been found to relate to the occurrence and severity of numerous physical disease states, as well as many cognitive-behavioral health disorders. This use of the term neurovisceral refers to the relationships between the nervous system and the viscera, providing a more focused and specific conceptual alternative to the now nearly archaic "mind-body" distinction. This awareness has led to the recent and growing use of HRV as a health biomarker or health status measure of neurovisceral functioning. It facilitates studying the complex two way interaction between the central nervous system and other key systems such as the cardiac, gastroenterological, pulmonary and immune systems. The utility of HRV as a broad spectrum health indicator with possible application both clinically and to population health has only begun to be explored. Interventions based on HRV have been demonstrated to be effective evidence-based interventions, with HRV biofeedback treatment for PTSD representing an empirically supported modality for this complex and highly visible affliction. As an integral measure of stress, HRV can be used to objectively assess the functioning of the central, enteric and cardiac nervous systems, all of which are largely mediated by the vagal nervous complex. HRV has also been found to be a measure of central neurobiological concepts such as executive functioning and cognitive load. The relatively simple and inexpensive acquisition of HRV data and its ease of network transmission and analysis make possible a promising digital epidemiology which can facilitate objective population health studies, as well as web based clinical applications. An intriguing example is the use of HRV data obtained at motor vehicle crash sites in decision support regarding life flight evacuations to improve triage to critical care facilities. This Research Topic critically addresses the issues of appropriate scientific and analytic methods to capture the concept of the Integrative Health and Well-being Model. The true nature of this approach can be appreciated only by using both traditional linear quantitative statistics and nonlinear systems dynamics metrics, which tend to be qualitative. The Research Topic also provides support for further development of new and robust methods for evaluating the safety and effectiveness of interventions and practices, going beyond the sometimes tepid and

misleading “gold standard” randomized controlled clinical trial.

Textbook of Environmental Studies for Undergraduate Courses Jul 30 2022 The Importance Of Environmental Studies Cannot Be Disputed Since The Need For Sustainable Development Is A Key To The Future Of Mankind. Recognising This, The Honourable Supreme Court Of India Directed The Ugc To Introduce A Basic Course On Environmental Education For Undergraduate Courses In All Disciplines, To Be Implemented By Every University In The Country. Accordingly, The Ugc Constituted An Expert Committee To Formulate A Six-Month Core Module Syllabus For Environmental Studies. This Textbook Is The Outcome Of The Ugc S Efforts And Has Been Prepared As Per The Syllabus. It Is Designed To Bring About An Awareness On A Variety Of Environmental Concerns. It Attempts To Create A Pro-Environmental Attitude And A Behavioural Pattern In Society That Is Based On Creating Sustainable Lifestyles And A New Ethic Towards Conservation. This Textbook Stresses On A Balanced View Of Issues That Affect Our Daily Lives. These Issues Are Related To The Conflict Between Existing `Development Strategies And The Need For `Conservation . It Not Only Makes The Student Better Informed On These Concerns, But Is Expected To Lead The Student Towards Positive Action To Improve The Environment. Based On A Multidisciplinary Approach That Brings About An Appreciation Of The Natural World And Human Impact On Its Integrity, This Textbook Seeks Practical Answers To Make Human Civilization Sustainable On The Earth S Finite Resources. Attractively Priced At Rupees One Hundred And Fifteen Only, This Textbook Covers The Syllabus As Structured By The Ugc, Divided Into 8 Units And 50 Lectures. The First 7 Units, Which Cover 45 Lectures Are Classroom Teaching-Based, And Enhance Knowledge Skills And Attitude To Environment. Unit 8 Is Based On Field Activities To Be Covered In 5 Lecture Hours And Would Provide Students With First Hand Knowledge On Various Local Environmental Issues.

Pediatric Heart Failure Nov 09 2020 The first book of its kind, this reference describes current diagnostic and treatment strategies for acute and chronic heart failure in the fetus, neonate, child, and young adult-encompassing every aspect of pediatric heart failure including historical perspectives, the latest technologies in mechanical circulatory support, and recent information on the psychosocial aspects of heart failure in children.

Spectral, Photon Counting Computed Tomography Jan 24 2022 Spectral, Photon Counting Computed Tomography is a comprehensive cover of the latest developments in the most prevalent imaging modality (x-ray computed tomography (CT)) in its latest incarnation: Spectral, Dual-Energy, and Photon Counting CT. Disadvantages of the conventional single-energy technique used by CT technology are that different materials cannot be distinguished and that the noise is larger. To address these problems, a novel spectral CT concept has been proposed. Spectral Dual-Energy CT (DE-CT) acquires two sets of spectral data, and Spectral Photon Counting CT (PC-CT) detects energy of x-ray photons to reveal additional material information of objects by using novel energy-sensitive, photon-counting detectors. The K-edge imaging may be a gateway for functional or molecular CT. The book covers detectors and electronics, image reconstruction methods, image quality assessments, a simulation tool, nanoparticle contrast agents,

and clinical applications for spectral CT.

Research in the Biomedical Sciences Oct 28 2019 Research in the Biomedical Sciences: Transparent and Reproducible documents the widespread concerns related to reproducibility in biomedical research and provides a best practices guide to effective and transparent hypothesis generation, experimental design, reagent standardization (including validation and authentication), statistical analysis, and data reporting. The book addresses issues in the perceived value of the existing peer review process and calls for the need for improved transparency in data reporting. It reflects new guidelines for publication that include manuscript checklists, replication/reproducibility initiatives, and the potential consequences for the biomedical research community and societal health and well-being if training, mentoring, and funding of new generations of researchers and incentives for publications are not improved. This book offers real world examples, insights, and solutions to provide a thought-provoking and timely resource for all those learning about, or engaged in, performing and supervising research across the biomedical sciences. Provides a "big picture" perspective that includes the scope of the replicability issue and covers initiatives that have the potential to act as effective solutions Offers real world research context for transparent, replicable experimental design and execution and reporting of biomedical research with the potential to address aspects of the translational gap in drug discovery Highlights the importance of reproducibility and the necessary changes in biomedical and pharmaceutical research training and incentives to ensure sustainability

Genome Editing in Drug Discovery Oct 01 2022 GENOME EDITING IN DRUG DISCOVERY A practical guide for researchers and professionals applying genome editing techniques to drug discovery In Genome Editing in Drug Discovery, a team of distinguished biologists delivers a comprehensive exploration of genome editing in the drug discovery process, with coverage of the technology's history, current issues and techniques, and future perspectives and research directions. The book discusses techniques for disease modeling, target identification with CRISPR, safety studies, therapeutic editing, and intellectual property issues. The safety and efficacy of drugs and new target discovery, as well as next-generation therapeutics are also presented. Offering practical suggestions for practitioners and academicians involved in drug discovery, Genome Editing in Drug Discovery is a fulsome treatment of a technology that has become part of nearly every early step in the drug discovery pipeline. Selected contributions also include: A thorough introduction to the applications of CRISPRi and CRISPRa in drug discovery Comprehensive explorations of genome-editing applications in stem cell engineering and regenerative medicine Practical discussions of the safety aspects of genome editing with respect to immunogenicity and the specificity of CRISPR-Cas9 gene editing In-depth examinations of critical socio-economic and bioethical challenges in the CRISPR-Cas9 patent landscape Perfect for academic researchers and professionals in the biotech and pharmaceutical industries, Genome Editing in Drug Discovery will also earn a place in the libraries of medicinal chemists, biochemists, and molecular biologists.

Information and Communication Technology for Intelligent Systems Dec 23 2021 This book gathers papers addressing state-of-

the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems, which was held in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

Hospitalization for Congestive Heart Failure Jan 30 2020

International Conference on Innovative Computing and Communications Oct 09 2020 This book includes high-quality research papers presented at the Second International Conference on Innovative Computing and Communication (ICICC 2019), which is held at the VŠB - Technical University of Ostrava, Czech Republic, on 21–22 March 2019. Introducing the innovative works of scientists, professors, research scholars, students, and industrial experts in the fields of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Data Analytics and Management Nov 02 2022 This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2020), held at Jan Wzykowski University, Poland, during June 2020. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students.

Polycystic Ovary Syndrome Aug 31 2022 This volume includes the latest diagnostic criteria for PCOS and comprises the most up-to-date information about the genetic features and pathogenesis of PCOS. It critically reviews the methodological approaches and the evidence for various PCOS susceptibility genes. The book also discusses additional familial phenotypes of PCOS and their potential genetic basis. All four editors of this title are extremely prominent in the field of PCOS.

A Textbook of Engineering Mathematics (For First Year ,Anna University) Sep 07 2020

Metal Soaps in Art Mar 02 2020 This go-to reference work surveys the current state of knowledge in the field of metal soap-related degradation phenomena in art works. It contains detailed descriptions and images of the different phenomena and addresses the practical aspects of soap formation, preventive conservation, and treatment. The occurrence of metal soaps is one of the defining issues in the conservation of painted surfaces, and one that presently leaves innumerable open questions. It is estimated that around 70% of paintings in museum collections are affected by some form of metal soap-related degradation. In recent years, significant advances have been made in the detection and characterization of these compounds through interdisciplinary approaches including conventional spectroscopy and microscopy as well as emerging synchrotron-based techniques. This book for the first time captures a

panoramic overview of the state of knowledge of metal soaps related to both scientific analysis and implications for conservation and treatment. It also critically examines open questions. The book is accessible to audiences with varied backgrounds (e.g. conservators, students of conservation science) while simultaneously presenting the technical details indispensable for academics and researchers active in this field.

Smart Homes and Health Telematics, Designing a Better Future: Urban Assisted Living Mar 14 2021 This book constitutes the proceedings of the 16th International Conference on Smart Homes and Health Telematics, ICOST 2018, held in Singapore, Singapore, in July 2018. The theme of this year volume is "Designing a better Future: Urban Assisted Living", focusing on quality of life of dependent people not only in their homes, but also in outdoor living environment to improve mobility and social interaction in the city. The 21 regular papers and 11 short papers included in this volume focus on research in the design, development, deployment and evaluation of smart urban environments, assistive technologies, chronic disease management, coaching and health telematics systems.

Recent Advances in iPSC Disease Modeling, Volume 1 Mar 26 2022 Recent Advances in iPSC Disease Modeling, Volume 1 addresses how induced pluripotent stem cells can be used to model various diseases. Somatic cells are reprogrammed into induced pluripotent stem cells by the expression of specific transcription factors. These cells are transforming biomedical research in the last 15 years. This volume teaches readers about current advances in the field. This book describes the use of induced pluripotent stem cells to model several diseases in vitro, enabling us to study the cellular and molecular mechanisms involved in different pathologies. Further insights into these mechanisms will have important implications for our understanding of disease appearance, development, and progression. In recent years, remarkable progress has been made in the obtention of induced pluripotent stem cells and their differentiation into several cell types, tissues, and organs using state-of-art techniques. These advantages facilitated identification of key targets and definition of the molecular basis of several disorders. The volume is written for researchers and scientists in stem cell therapy, cell biology, regenerative medicine and organ transplantation; and is contributed by world-renowned authors in the field. Provides overview of the fast-moving field of induced pluripotent stem cell technology, regenerative medicine, and therapeutics Covers the following diseases: severe congenital neutropenia, sickle cell and Diamond-Blackfan anemias, muscular dystrophies, Bernard-Soulier syndrome, familial hypercholesterolemia type II A, Werner syndrome, lysosomal storage diseases, and more Contains description of cutting-edge research on the development of disease-specific human pluripotent stem cells. These cells allow us to study cellular and molecular processes involved in several human diseases

Proceedings of Indian Geotechnical and Geoenvironmental Engineering Conference (IGGEC) 2021, Vol. 1 Apr 26 2022 This book presents select proceedings of the Indian Geotechnical and Geoenvironmental Engineering Conference (IGGEC-21). Various topics covered in this book include geotechnical engineering, earthquake geotechnical engineering, geoenvironmental engineering, ground improvement, transportation geotechnics, waste management and sustainable engineering. The book will be a valuable

reference for researchers and professionals in the discipline of civil, materials, geoenvironmental engineering, landfills, hydrogeology, ground improvement and earthquake geotechnical engineering.

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