

## Environmental Studies By Deswal Databy

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.

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.

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.

Textbook of Environmental Studies for Undergraduate Courses Universities Press

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.

This book discusses the implications of new technologies for a secured society. As such, it reflects the main focus of the International Conference on Ethical Hacking, eHaCon 2018, which is essentially in evaluating the security of computer systems using penetration testing techniques. Showcasing the most outstanding research papers presented at the conference, the book shares new findings on computer network attacks and defenses, commercial security solutions, and hands-on, real-world security experience. The respective sections include network security, ethical hacking, cryptography, digital forensics, cloud security, information security, mobile communications security, and cyber security.

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.

This book provides new information on the control of monoglinal coupling and on modifying the biochemical steps in their formation and configuration. The text provides a critical assessment of recent advances in delineating the relationships and biosynthetic pathways of lignins and lignans. The discussion emphasizes lignin and lignan formation, particularly the templates for lignin assembly and the control of stereochemical coupling.

This book acts as a guidepost for the entire DSM process. It reviews recent scientific advances in our understanding of the inter-relationship between generalized anxiety disorder and major depression, summarizes the body of evidence into a few broad conclusions, and reflects on the implications of these findings for future nosologic efforts.

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.

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 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.

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.

Until recently, a modest knowledge of genetics was more than adequate for the daily practice of clinical cardiology, but advances in genetics and genomics are changing cardiovascular medicine in fundamental ways. The identification of the genetic basis of several forms of dyslipidemia, hypertension, diabetes, cardiomyopathies, and vascular diseases signalled the new importance of genetics in clinical medicine. In this timely volume, Drs. Dzau and Liew – both pioneers in the area – help cardiologists understand: • how cardiovascular genetics may remodel the way cardiovascular medicine is practiced • what material has immediate relevance to the practicing clinician • how to incorporate genetics and genomics in your practice to ensure up-to-date patient care The book opens with introductory chapters, then discusses: • cardiovascular single gene disorders • cardiovascular polygenic disorders • therapies and applications Outstanding contributors write on their areas of expertise, making Cardiovascular Genetics and Genomics for the Cardiologist both authoritative and comprehensive. If you want to gain a better appreciation of how genetics and genomics are already shaping current practice and may potentially revolutionize cardiology, look no further than this dependable reference.

Although cardiovascular disease remains the leading proximate cause of death in the United States, it is now estimated that obesity may be equivalent to smoking as the leading cause of preventable death in America. In light of these statistics, this reference presents our current understanding of the epidemiology, pathology, and genetics of the obesity epidemic and its relationship to cardiovascular disease. It provides an evidence-based approach to the topic, as well as emphasizes a combined treatment strategy for patients suffering from both obesity and cardiovascular disease.

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

This volume contains 70 papers presented at CSI 2014: Emerging ICT for Bridging the Future: Proceedings of the 49th Annual Convention of Computer Society of India. The convention was held during 12-14, December, 2014 at Hyderabad, Telangana, India. This volume contains papers mainly focused on Machine Learning & Computational

Intelligence, Ad hoc Wireless Sensor Networks and Networks Security, Data Mining, Data Engineering and Soft Computing.

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.

Cardiovascular diseases kill and disable more than a million Americans each year. The major types of this complex of diseases are coronary heart disease, hypertensive disease, cerebrovascular diseases, rheumatic heart disease, and congenital malformations of the circulatory system. Authors Moriyama, Krueger, and Stamler relate each of these types to etiology, age of patient at onset, clinical course, and socioeconomic impact on the population. For each type of cardiovascular disease they analyze the quantitative data on the incidence, prevalence, and levels and time trends of mortality and on the demographic characteristics of person affected. They also examine international differences in levels and trends in mortality and point out areas for further research. More than thirty-five figures as well as extensive tables document their text.

Scientific research on dengue has a long and rich history. The literature has been touched by famous names in medicine- Benjamin Rush, Walter Reed, and Albert Sabin, to name a very few- and has been fertile ground for medical historians . The advances made in those early investigations are all the more remarkable for the limited tools available at the time. The demonstration of a viral etiology for dengue fever, the recognition of mosquitoes as the vector for transmission to humans, and the existence of multiple viral variants (serotypes) with only partial cross-protection were all accomplished prior to the ability to culture and characterize the etiologic agent. Research on dengue in this period was typically driven by circumstances. Epidemics of dengue created public health crises, although these were relatively short-lived in any one location, as the population of susceptible individuals quickly shrank. Military considerations became as a major driving force for research. With the introduction of large numbers of non-immune individuals into endemic areas, dengue could cripple military readiness, taking more soldiers out of action than hostile fire. Dengue and dengue hemorrhagic fever, which assumed pandemic proportions during the latter half of the last century, have shown no indication of slowing their growth during this first decade of the twenty-first century. Challenges remain in understanding the basic mechanisms of viral replication and disease pathogenesis, in clinical management of patients, and in control of dengue viral transmission. Nevertheless, new tools and insights have led to major recent scientific advances. As the first candidate vaccines enter large-scale efficacy trials, there is reason to hope that we may soon "turn the corner" on this disease.

The improvement of crop species has been a basic pursuit since cultivation began thousands of years ago. To feed an ever increasing world population will require a great increase in food production. Wheat, corn, rice, potato and few others are expected to lead as the most important crops in the world. Enormous efforts are made all over the world to document as well as use these resources. Everybody knows that the introgression of genes in wheat provided the foundation for the "Green Revolution". Later also demonstrated the great impact that genetic resources have on production. Several factors are contributing to high plant performance under different environmental conditions, therefore an effective and complementary use of all available technological tools and resources is needed to meet the challenge.

Genetic Enhancement of Crops for Tolerance to Abiotic Stress: Mechanisms and Approaches, Volume I provides a consolidated update of the approaches taken to deepen our understanding of plants' morphological, physiological and molecular responses to various abiotic stresses and progresses made in unraveling and understanding the regulatory mechanisms, signaling pathways and cross talk among mechanisms operating under abiotic stress situations in various crops. The book includes articles on the diverse tools and technological approaches the use of which has improved our understanding of the intricate mechanisms operating in crop plants under abiotic stress conditions. The chapters describe the use of various 'omics' platforms such as transcriptomics, metabolomics, proteomics, microRNA and heat shock proteins as molecular players, phytohormone (s) regulation of stress signalling pathways, and various functional genomics approaches adopted by scientists to collate a wealth of information to understand abiotic stress tolerance mechanisms for crop improvement. In addition, chapters have been contributed on the burning topic of the role of chromatin remodeling under stress conditions and on the epigenetic dynamics via histones modifications that can improve stress tolerance in crops by enhancing the stress memory. We are very hopeful that the topics will be useful to a broad community of scientists working in similar areas and the outcomes discussed can provide useful leads to build strategies to generate abiotic stress tolerant varieties. Soil salinity is destroying several hectares of arable land every minute. Because remedial land management cannot completely solve the problem, salt tolerant crops or plant species able to remove excessive salt from the soil could contribute significantly to managing the salinity problem. The key to engineering crops for salt tolerance lies in a thorough understanding of the physiological mechanisms underlying the adaptive responses of plants to salinity. Plant Salt Tolerance: Methods and Protocols describes recent advances and techniques employed by researchers to understand the molecular and ionic basis of salinity tolerance and to investigate the mechanisms of salt stress perception

and signalling in plants. With chapters written by leading international scientists, this book covers nearly 30 different methods, such as microelectrode and molecular methods, imaging techniques, as well as various biochemical assays. Written in the highly successful *Methods in Molecular Biology*™ series format, chapters contain introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, *Plant Salt Tolerance: Methods and Protocols* serves as an essential read for every student or researcher tackling various aspects of the salinity problem.

This volume summarizes recent advances in understanding the mechanisms of HIV-1 latency, in characterizing residual viral reservoirs, and in developing targeted interventions to reduce HIV-1 persistence during antiretroviral therapy. Specific chapters address the molecular mechanisms that govern and regulate HIV-1 transcription and latency; assays and technical approaches to quantify viral reservoirs in humans and animal models; the complex interchange between viral reservoirs and the host immune system; computational strategies to model viral reservoir dynamics; and the development of therapeutic approaches that target viral reservoir cells. With contributions from an interdisciplinary group of investigators that cover a broad spectrum of subjects, from molecular virology to proof-of-principle clinical trials, this book is a valuable resource for basic scientists, translational investigators, infectious-disease physicians, individuals living with HIV/AIDS and the general public.

This socially conscious, culturally relevant book explores the little-known history and present climate of Black people in the medical field. It reveals the deficiencies in the American healthcare structure that have contributed to the mismanagement of healthcare in the Black population, and examines cross-currents that intersect with the major events in minority medical history. Illustrated across 10 expertly written chapters, this text features a longitudinal timeline with the presentation of evidence-based information drawn from historical, political, and clinical sources. The book begins with an analysis of diseases particularly prevalent in the Black community due to socioeconomic inequalities in available medical care. These diseases include sickle cell anemia, hypertension, heart failure, drug addiction, and HIV/AIDS. Bolstered by profiles of historically well-known Black physicians, stories of success in medical education, and the remarkable impact of Black medical organizations, subsequent chapters address the triumphs and tribulations of the Black medical professional in America. Concluding with an examination of the current health status of Black people in the United States, the book makes a case for future systemic improvements in healthcare delivery to minority communities. A unique, noteworthy reference, *Blacks in Medicine: Clinical, Demographic, and Socioeconomic Correlations* is written for a broad range of physicians and health providers, as well as professionals in the social sciences and public health.

After decades of dominance of genetics and genomics, the importance of structural biology is growing exponentially in the field of plant biology. The main objectives of this new book series is to “demystify” structural biology for plant researchers and to provide important insights into the basic molecular mechanisms underlying plant development through the diverse approaches utilized by structural biologists. The book series starts with a theme dedicated to hormonal signaling that has benefited from the application of structural biology. “*Plant Structural Biology: Hormonal Regulations*” provides up-to-date knowledge of the structural aspects of hormonal signal recognition, signal transduction, hormonal control of downstream regulatory pathways and hormonal crosstalk. The most distinctive features of this book as well as future titles is/will be to provide overview of cutting-edge research in the field of plant structural biology, and to serve as a compendium of various approaches that could be applied to problems being solved in modern plant biology. Last but not least, we hope this book will facilitate and broaden the community of (not only) plant scientists who are interested in structural biology approaches and tools. For these reasons, the style of this series is concise and general, in order to avoiding unnecessary details. Explanatory boxes describing the basics of specific approaches (e.g. X-ray crystallography, NMR, SAXS, molecular dynamics simulations, etc.) are included.

With one volume each year, this series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences. This latest volume includes reviews on plant physiology, biochemistry, genetics and genomics, forests, and ecosystems.

This reference offers an overview of the bulk and surface properties of perovskite-like structures, and provides the latest discussions on the applications of these materials and processes. It also introduces ceramic methods for the processing of perovskite-derived high T<sub>c</sub> cuprates.;Examining every available procedure for synthesizing high-surface-area perovskite oxides, this book: delineates processing techniques for preparing perovskite-derived high-critical-temperature superconductors; illustrates the relevance of physiochemical methods to investigate bulk and surface structures of perovskite compounds; explicates the importance of surface composition in the context of catalytic behaviour; summarizes methods of changing stoichiometry; shows how to design perovskite oxides for a given purpose; reviews key solid-state properties; and presents the major applications.

*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.

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.

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

This book provides the most recent understanding about climate change and its effects on agriculture in India. Further in-depth research is showcased regarding important allied sectors such as horticulture and fisheries, and examines the effect of climate change on different cereal crops. The individual chapters discuss the different mitigation strategies for climate change impacts and detail abiotic and biotic stresses in relation to climate change. The book provides an insight into environmentally safe and modern technologies approaches such as nanotechnology and utilization of underutilized crops under a changing climate. This book provides a solid foundation for the discussion of climate resilience in agricultural systems and the requirements to keep improving agricultural production. This book is an excellent resource for researchers, instructors, students in agriculture, horticulture and environmental science.

Geomorphological Mapping: a professional handbook of techniques and applications is a new book targeted at academics and practitioners who use, or wish to utilise, geomorphological mapping within their work. Synthesising for the first time an historical perspective to geomorphological mapping, field based and digital tools and techniques for mapping and an extensive array of case studies from academics and professionals active in the area. Those active in geomorphology, engineering geology, reinsurance, Environmental Impact Assessors, and allied areas, will find the text of immense value. Growth of interest in geomorphological mapping and currently no texts comprehensively cover this topic Extensive case studies that will appeal to professionals, academics and students (with extensive use of diagrams, potentially colour plates) Brings together material on digital mapping (GIS and remote sensing), cartography and data sources with a focus on modern technologies (including GIS, remote sensing and digital terrain analysis) Provides readers with summaries of current advances in methodological/technical aspects Accompanied by electronic resources for digital mapping

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