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APC Understanding Information Technology 8 **APC Understanding Information Technology 3** *APC Understanding Information Technology 5* **APC Understanding Information Technology 7** **Energy Storage and Conversion Devices** APC Understanding Information Technology 4 Palpasa Café *Electrospun Nanofibers* Global Climate Change Applied Soft Computing and Embedded System Applications in Solar Energy **Her Last Wish** Hero of Batalik *Khus? Biopolymer Grafting: Synthesis and Properties* **Frontiers in Protein Structure, Function, and Dynamics** **Mathematical Analysis for Transmission of COVID-19** *Colon Cancer Diagnosis and Therapy* *Nanotechnology Based Approaches for Tuberculosis Treatment* Recent Advances in Structural Engineering *Mountains Painted with Turmeric* *Multidisciplinary Approach to Modern Digital Steganography* *Advanced Materials and Manufacturing Processes* **Studies in Natural Products Chemistry** Waste to Sustainable Energy **Nanoscience in Medicine Vol. 1** **Wireless Communications & Networking** **Deep Learning for the Life Sciences** Industrial Relations, Trade Unions, and Labour Legislation: **Nanotechnology for Energy and Water** **The Legacy of Nothing** Abiotic Stress and Legumes **Intertemporal Pricing and Output Allocation of Major Foodgrains in India** **Business Organization and Management** *Microbial Endophytes* *RNA-Based Regulation in Human Health and Disease* **Indian Erysiphaceae** *Machine Learning: Theoretical Foundations and Practical Applications* **Natural Bioactive Products in Sustainable Agriculture** **Deep Learning, Machine Learning and IoT in Biomedical and Health Informatics** **Muna-Madan**

Understanding Information Technology series is written as per the requirements of the ICSE and CBSE schools, imparting knowledge in the field of Information and Technology. The series contains a number of special features: • The topics are explained in lucid language in a systematic way. • The series provides basic and comprehensive knowledge of the subject as per today's needs. • The presentation of the books makes the subject interesting for the students. • The series also contains a high-level language at all levels to develop the fundamental concept of programming techniques. This book discusses advanced materials and manufacturing processes with insights and overviews on tribology, automation, mechanical, biomedical, and aerospace engineering, as well as the optimization of industrial applications. The book explores the different types of composite materials while reporting on the design considerations and applications of each. Offering an overview of futuristic research areas, the book examines various engineering optimization and multi-criteria decision-making techniques and introduces a specific control framework used in analyzing processes. The book includes problem analyses and solving skills and covers different types of composite materials, their design considerations, and applications. This book is an informational resource for advanced undergraduate and graduate students, researchers, scholars, and field professionals, providing an update on the current advancements in the field of manufacturing processes. Understanding Information Technology series is written as per the requirements of the ICSE and CBSE schools, imparting knowledge in the field of Information and Technology. The series contains a number of special features: • The topics are explained in lucid language in a systematic way. • The series provides basic and comprehensive knowledge of the subject as per today's needs. • The presentation of the books makes the subject interesting for the students. • The series also contains a high-level language at all levels to develop the fundamental concept of programming techniques. Palpasa Café tells the story of an artist, Drishya, during the height of the Nepalese Civil War. The novel is partly a love story of Drishya and the first generation American Nepali, Palpasa, who has returned to the land of her parents after 9/11. It is often called an anti-war novel, and describes the effects of the civil war on the Nepali countryside that Drishya travels to. Steganography is the art of secret writing. The purpose of steganography is to hide the presence of a message from the intruder by using state-of-the-art methods, algorithms, architectures, models, and methodologies in the domains of cloud, internet of things (IoT), and the Android platform. Though security controls in cloud computing, IoT, and Android platforms are not much different than security controls in an IT environment, they might still present different types of risks to an organization than the classic IT solutions. Therefore, a detailed discussion is needed in case there is a breach in security. It is important to review the security aspects of cloud, IoT, and Android platforms related to steganography to determine how this new technology is being utilized and improved continuously to protect information digitally. The benefits and challenges, along with the current and potential developments for the future, are important keystones in this critical area of security research. Multidisciplinary Approach to Modern Digital Steganography reviews the security aspects of cloud, IoT, and Android platforms related to steganography and addresses emerging security concerns, new algorithms, and case studies in the field. Furthermore, the book presents a new approach to secure data storage on cloud infrastructure and IoT along with including discussions on optimization models and security controls that could be implemented. Other important topics include data transmission, deep learning techniques, machine learning, and both image and text stenography. This book is essential for forensic engineers, forensic analysts, cybersecurity analysts, cyber forensic examiners, security engineers, cybersecurity network analysts, cyber network defense analysts, and digital forensic examiners along with practitioners, researchers, academicians, and students interested in the latest techniques and state-of-the-art methods in digital steganography. This book discusses a broad range of basic and advanced topics in the field of protein structure, function, folding, flexibility, and dynamics. Starting with a basic introduction to protein purification, estimation, storage, and its effect on the protein structure, function, and dynamics, it also discusses various experimental and computational structure determination approaches; the importance of molecular interactions and water in protein stability, folding and dynamics; kinetic and thermodynamic parameters associated with protein-ligand binding; single molecule techniques and their applications in studying protein folding and aggregation; protein quality control; the role of amino acid sequence in protein aggregation; muscarinic acetylcholine receptors, antimuscarinic drugs, and their clinical significances. Further, the book explains the current understanding on the therapeutic importance of the enzyme dopamine beta hydroxylase; structural dynamics and motions in molecular motors; role of cathepsins in controlling degradation of extracellular matrix during disease states; and the important structure-function relationship of iron-binding proteins, ferritins. Overall, the book is an important guide and a comprehensive resource for understanding protein structure, function, dynamics, and interaction. This book discusses various aspects of bioactive natural products employed in the agrochemical and agriculture sectors. It covers the use of plants, microorganisms, and microbial metabolites as eco-friendly, cost-effective, and sustainable alternatives to chemicals in the field of agriculture. Written by active researchers and academics, the book highlights state-of-art products in the field, as well as the gaps, challenges, and obstacles associated with the use of plants, microbes and their products. Given its scope, it is a valuable resource for the scientific community and professionals in enterprises wanting insights into the latest developments and advances in the context of biological products, including their applications, traditional uses, modern practices, and strategies to harness their full potential. Nanotechnology Based Approaches for Tuberculosis Treatment discusses multiple nanotechnology-based approaches that may help overcome persisting limitations of conventional and traditional treatments. The book summarizes the types of nano drugs, their synthesis, formulation, characterization and applications, along with the most important administration routes. It also explores recent advances and achievements regarding therapeutic efficacy and provides possible future applications in this field. It will be a useful resource for investigators, pharmaceutical researchers, innovators and scientists working on technology advancements in the areas of targeted therapies, nano scale imaging systems, and diagnostic modalities in tuberculosis. Addresses the gap between nanomedicine late discovery and early development of tuberculosis therapeutics Explores tuberculosis nanomedicine standardization and characterization with newly developed treatment, diagnostic and treatment monitoring modalities Covers the field thoroughly, from the pathogenesis of tuberculosis and multi-drug resistant mycobacterium tuberculosis, to treatment approaches using nanotechnology and different nanocarriers Autobiographical reminiscences of a professional media personality of Nepali television. Understanding Information Technology series is written as per the requirements of the ICSE and CBSE schools, imparting knowledge in the field of Information and Technology. The series contains a number of special features: • The topics are explained in lucid language in a systematic way. • The series provides basic and comprehensive knowledge of the subject as per today's needs. • The presentation of the books makes the subject interesting for the students. • The series also contains a high-level language at all levels to develop the fundamental concept of programming techniques. Biomedical and Health Informatics is an important field that brings tremendous opportunities and helps address challenges due to an abundance of available biomedical data. This book examines and demonstrates state-of-the-art approaches for IoT and Machine Learning based biomedical and health related applications. This book aims to provide computational methods for accumulating, updating and changing knowledge in intelligent systems and particularly learning mechanisms that help us to induce knowledge from the data. It is helpful in cases where direct algorithmic

solutions are unavailable, there is lack of formal models, or the knowledge about the application domain is inadequately defined. In the future IoT has the impending capability to change the way we work and live. These computing methods also play a significant role in design and optimization in diverse engineering disciplines. With the influence and the development of the IoT concept, the need for AI (artificial intelligence) techniques has become more significant than ever. The aim of these techniques is to accept imprecision, uncertainties and approximations to get a rapid solution. However, recent advancements in representation of intelligent IoTsystems generate a more intelligent and robust system providing a human interpretable, low-cost, and approximate solution. Intelligent IoT systems have demonstrated great performance to a variety of areas including big data analytics, time series, biomedical and health informatics. This book will be very beneficial for the new researchers and practitioners working in the biomedical and healthcare fields to quickly know the best performing methods. It will also be suitable for a wide range of readers who may not be scientists but who are also interested in the practice of such areas as medical image retrieval, brain image segmentation, among others. • Discusses deep learning, IoT, machine learning, and biomedical data analysis with broad coverage of basic scientific applications • Presents deep learning and the tremendous improvement in accuracy, robustness, and cross- language generalizability it has over conventional approaches • Discusses various techniques of IoT systems for healthcare data analytics • Provides state-of-the-art methods of deep learning, machine learning and IoT in biomedical and health informatics • Focuses more on the application of algorithms in various real life biomedical and engineering problems Biopolymer Grafting: Synthesis and Properties presents the latest research and developments in fundamental of synthesis and properties of biopolymer-based graft copolymers. The book presents a broad overview of the biopolymer grafting process, along with trends in the field. It also introduces a range of grafting methods which lead to materials with enhanced properties for a range of practical applications, along with the positives and limitations of these techniques. The book bridges the knowledge gap between the scientific principles and industrial applications of polymer grafting. This book covers synthesis and characterization of graft-copolymers of plant polysaccharides, functional separation membranes from grafted biopolymers, and polysaccharides in alternative methods for insulin delivery. Recent trends and advances in this area are discussed, assisting materials scientists and researchers in mapping out the future of these new "green" materials through value addition to enhance their use. Introduces polymer researchers to a promising, rapidly developing method for modifying naturally derived biopolymers Provides a one-stop shop covering synthesis, properties, characterization and graft copolymerization of bio-based polymeric materials Increases familiarity with a range of biopolymer grafting processes, enabling materials scientists and engineers to improve material properties and widen the range of potential biopolymer applications Indian Erysiphaceae' is a monographic work on the powdery mildew fungi based on the teliomorphic stage collected on 86 different host species from various agroecological zones of Himachal Pradesh. So far, 22 genera and about 300 species of powdery mildew fungi have been described from India, but all is scattered in mycological literature. An attempt has been made to compile all the species reported from India. Each of the genus studied has been included in separate chapter. Besides, host index, fungus index and references, the species described in the present studies and those described from India have been presented in tabular form in the end alongwith the references. Camera lucida drawings and coloured microphotographs have also been provided. This monograph will provide a base for future compilations of the work on Indian Erysiphaceae and will be of great use to the students and researchers not only in India but abroad also. The second edition of Industrial Relations, Trade Unions, and Labour Legislation is an up-to-date interactive text, primarily related to issues in India. The book does, however, incorporate developments and practices in other countries, particularly UK and USA. Primarily designed for the students of management, economics, labour and social welfare, social work, commerce and similar disciplines this book will also be of interest to professionals in the field of labour relations and management. This edited book is a collection of chapters invited and presented by experts at 10th industry symposium held during 9–12 January 2020 in conjunction with 16th edition of ICDCIT. The book covers topics, like machine learning and its applications, statistical learning, neural network learning, knowledge acquisition and learning, knowledge intensive learning, machine learning and information retrieval, machine learning for web navigation and mining, learning through mobile data mining, text and multimedia mining through machine learning, distributed and parallel learning algorithms and applications, feature extraction and classification, theories and models for plausible reasoning, computational learning theory, cognitive modelling and hybrid learning algorithms. The book presents the select proceedings of National Conference on Recent Advances in Structural Engineering (NCRASE 2020). Various topics covered in this book include advanced structural materials, computational methods of structures, earthquake resistant analysis and design, analysis and design of structures against wind loads, pre-stressed concrete structures, bridge engineering, experimental methods and techniques of structures, offshore structures, composite structures, smart materials and structures, port and harbor structures, structural dynamics, high rise structures, sustainable materials in the construction technology, advanced structural analysis, extreme loads on structures, innovative structures, and special structures. The book will be useful for researchers and professional working in the field of structural engineering. The Legacy of Nothing is a collection of stories culled from the ennui of modern living. These disjointed tales of dark, disparate, desperate lives entertain, provoke and challenge our empathy. Manoj Pandey’s poetic prose is an insider’s job – a unique exploration of the emptiness inside the eggshell of contemporary existence. Tale of a young Nepali peasant farmer's run of bad luck. Dhan Dhan? Bahadur Basnet, 25, strives to support himself; his wife, Maina; a small son; and his teenage sister, Jhumavati, and buys a buffalo on interest from a moneylender to help plant his family plot. But the buffalo's calf dies, then the buffalo rampages a neighboring field, leaving Dhan? responsible for damages. To pay off the debt, Dhan? agrees to work another farmer's fields and offers his home and land as security. Applied Soft Computing and Embedded System Applications in Solar Energy deals with energy systems and soft computing methods from a wide range of approaches and application perspectives. The authors examine how embedded system applications can deal with the smart monitoring and controlling of stand-alone and grid-connected solar photovoltaic (PV) systems for increased efficiency. Growth in the area of artificial intelligence with embedded system applications has led to a new era in computing, impacting almost all fields of science and engineering. Soft computing methods implemented to energy-related problems regularly face data-driven issues such as problems of optimization, classification, clustering, or prediction. The authors offer real-time implementation of soft computing and embedded system in the area of solar energy to address the issues with microgrid and smart grid projects (both renewable and non-renewable generations), energy management, and power regulation. They also discuss and examine alternative solutions for energy capacity assessment, energy efficiency systems design, as well as other specific smart grid energy system applications. The book is intended for students, professionals, and researchers in electrical and computer engineering fields, working on renewable energy resources, microgrids, and smart grid projects. Examines the integration of hardware with stand-alone PV panels and real-time monitoring of factors affecting the efficiency of the PV panels Offers real-time implementation of soft computing and embedded system in the area of solar energy Discusses how soft computing plays a huge role in the prediction of efficiency of stand-alone and grid-connected solar PV systems Discusses how embedded system applications with smart monitoring can control and enhance the efficiency of stand-alone and grid-connected solar PV systems Explores swarm intelligence techniques for solar PV parameter estimation Dr. Rupendra Kumar Pachauri is Assistant Professor - Selection Grade in the Department of Electrical and Electronics Engineering, University of Petroleum and Energy Studies (UPES), Dehradun, India. Dr. Jitendra Kumar Pandey is Professor & Head of R&D in the University of Petroleum and Energy Studies (UPES), Dehradun, India. Mr. Abhishek Sharma is working as a research scientist in the research and development department (UPES, India). Dr. Om Prakash Nautiyal is working as a scientist in Uttarakhand Science Education & Research Centre (USERC), Department of Information and Science Technology, Govt. of Uttarakhand, Dehradun, India. Prof. Mangey Ram is working as a Research Professor at Graphic Era Deemed to be University, Dehradun, India. RNA-based Regulation in Human Health and Disease offers an in-depth exploration of RNA mediated genome regulation at different hierarchies. Beginning with multitude of canonical and non-canonical RNA populations, especially noncoding RNA in human physiology and evolution, further sections examine the various classes of RNAs (from small to large noncoding and extracellular RNAs), functional categories of RNA regulation (RNA-binding proteins, alternative splicing, RNA editing, antisense transcripts and RNA G-quadruplexes), dynamic aspects of RNA regulation modulating physiological homeostasis (aging), role of RNA beyond humans, tools and technologies for RNA research (wet lab and computational) and future prospects for RNA-based diagnostics and therapeutics. One of the core strengths of the book includes spectrum of disease-specific chapters from experts in the field highlighting RNA-based regulation in metabolic & neurodegenerative disorders, cancer, inflammatory disease, viral and bacterial infections. We hope the book helps researchers, students and clinicians appreciate the role of RNA-based regulation in genome regulation, aiding the development of useful biomarkers for prognosis, diagnosis, and novel RNA-based therapeutics. Comprehensive information of non-canonical RNA-based genome regulation modulating human health and disease Defines RNA classes with special emphasis on unexplored world of noncoding RNA at different hierarchies Disease specific role of RNA - causal, prognostic, diagnostic and therapeutic Features contributions from leading experts in the field His father's over expectations only ruined his self-confidence further with each failure. A ray of hope walked into his life as his wife, a charismatic personality spreading joy wherever she went. Everything is going per plan, but darkness comes knocking soon. He finds out that she does not have much time to live and takes it

upon himself to fight all odds – even his family, if need be – to help her fight her medical condition. His father sees his own redemption in helping them; he knows his son will be a winner only if he will fight for her, with her. Will a defeated son prove himself to be a good husband? Will the father-son duo together be able to change the course of fate? Her Last Wish is an inspiring story of love, relationships and sacrifice, which proves once again how a good wife makes the best husband. With no emissions and water as a byproduct, the globe could imagine a sustainable and resilient human kind that obliterates any possible chances of future climate change. With increased globalization, there has been an unprecedented escalation in production processes thus generating valued products and byproducts. A significant quantum of the waste materials generated can be transformed into fuels with the help of MFCs. MFC's utilities would bring about a paradigm shift built on the principles of sustainability, encompassing closed loop biorefinery approach. A MFC's bio-refinery ensures complete allocation of products and byproducts in various processes yielding zero waste. Such efforts would not only help in managing waste but also contribute to generation of renewable fuel and valued products that fosters sustainable development. To cater to the needs of the present challenges in waste management, bioenergy and bio product recovery and commercial sustainability, this book on MFCs will emphasize and throw light on various mechanisms, routes and reaction engineering approaches for complete transformation of waste to wealth. Microbial Endophytes: Prospects for Sustainable Agriculture discusses the practical and theoretical aspects regarding the use of endophytic microorganisms in agriculture, providing insights on the biotechnological applications associated with long-term crop production. Chapters deal with the various aspects of endophytic microorganisms, including isolation, enumeration, characterization procedures, diversity analysis, and their role as biofertilizer, biocontrol agent and microbial inoculants. Framed to discuss the present and future potential of microbial endophytes in biotic and abiotic stress management, bioremediation, bioactive compounds production, and in nanotechnology, this book provides a single-volume resource that will be valuable to academics and researchers interested in microbiology, agricultural sciences and biotechnology. Explores aspects of sustainable agriculture by using endophytic microorganism such as bacteria, fungi and actinobacteria Presents insights into the use of endophytes as biofertilizer and biocontrol agents in sustainable agriculture Relates endophyte organisms and nano-technology Managers are people who steer organizations towards meeting their objectives effectively and efficiently. Modern-day managers need to understand contemporary issues in management to achieve these objectives. Spread over nine parts, Business Organization and Management: Text and Cases addresses these issues in simple and student-friendly language, and explains concepts through rich diagrams and examples. Understanding Information Technology series is written as per the requirements of the ICSE and CBSE schools, imparting knowledge in the field of Information and Technology. The series contains a number of special features: • The topics are explained in lucid language in a systematic way. • The series provides basic and comprehensive knowledge of the subject as per today's needs. • The presentation of the books makes the subject interesting for the students. • The series also contains a high-level language at all levels to develop the fundamental concept of programming techniques. This book describes various mathematical models that can be used to better understand the spread of novel Coronavirus Disease 2019 (COVID-19) and help to fight against various challenges that have been developed due to COVID-19. The book presents a statistical analysis of the data related to the COVID-19 outbreak, especially the infection speed, death and fatality rates in major countries and some states of India like Gujarat, Maharashtra, Madhya Pradesh and Delhi. Each chapter with distinctive mathematical model also has numerical results to support the efficacy of these models. Each model described in this book provides its unique prediction policy to reduce the spread of COVID-19. This book is beneficial for practitioners, educators, researchers and policymakers handling the crisis of COVID-19 pandemic. This book takes a systematic approach to address the gaps relating to nanomedicine and bring together fragmented knowledge on the advances on nanomaterials and their biomedical applicability. In particular, it demonstrates an exclusive compilation of state of the art research with a focus on fundamental concepts, current trends, limitations, and future directions of nanomedicine. Deep learning has already achieved remarkable results in many fields. Now it's making waves throughout the sciences broadly and the life sciences in particular. This practical book teaches developers and scientists how to use deep learning for genomics, chemistry, biophysics, microscopy, medical analysis, and other fields. Ideal for practicing developers and scientists ready to apply their skills to scientific applications such as biology, genetics, and drug discovery, this book introduces several deep network primitives. You'll follow a case study on the problem of designing new therapeutics that ties together physics, chemistry, biology, and medicine—an example that represents one of science's greatest challenges. Learn the basics of performing machine learning on molecular data Understand why deep learning is a powerful tool for genetics and genomics Apply deep learning to understand biophysical systems Get a brief introduction to machine learning with DeepChem Use deep learning to analyze microscopic images Analyze medical scans using deep learning techniques Learn about variational autoencoders and generative adversarial networks Interpret what your model is doing and how it's working Natural products play an integral and ongoing role in promoting numerous aspects of scientific advancement, and many aspects of basic research programs are intimately related to natural products. With articles written by leading authorities in their respective fields of research, Studies in Natural Products Chemistry, Volume 37 presents current frontiers and future guidelines for research based on important discoveries made in the field of bioactive natural products. It is a valuable source for researchers and engineers working in natural products and medicinal chemistry. Describes the chemistry of bioactive natural products Contains contributions by leading authorities in the field A valuable source for researchers and engineers working in natural product and medicinal chemistry Abiotic Stress and Legumes: Tolerance and Management is the first book to focus on the ability of legume plants to adapt effectively to environmental challenges. Using the -omic approach, this book takes a targeted approach to understanding the methods and means of ensuring survival and maximizing the productivity of the legume plant by improving tolerance to environmental /abiotic stress factors including drought, temperature change, and other challenges. The book presents a comprehensive overview of the progress that has been made in identifying means of managing abiotic stress effects, specifically in legumes, including the development of several varieties which exhibit tolerance through high yield using transcriptomic, proteomic, metabolomic and ionomic approaches. Further, exogenous application of various stimulants such as plant hormones, nutrients, sugars, and polyamines has emerged as an alternative strategy to improve productivity under these environmental challenges. Abiotic Stress and Legumes: Tolerance and Management examines these emerging strategies and serves as an important resource for researchers, academicians and scientists, enhancing their knowledge and aiding further research. Explores the progress made in managing abiotic stress, specifically with high yield legumes Highlights the molecular mechanisms related to acclimation Presents proven strategies and emerging approaches to guide additional research Colorectal cancer (CRC) is a major global health challenge as the third leading cause for cancer related mortalities worldwide. Despite advances in therapeutic strategies, the five-year survival rate for CRC patients has remained the same over time due to the fact that patients are often diagnosed in advanced metastatic stages. Drug resistance is another common reason for poor prognosis. Researchers are now developing advanced therapeutic strategies such as immunotherapy, targeted therapy, and combination nanotechnology for drug delivery. In addition, the identification of new biomarkers will potentiate early stage diagnosis. This book is the second of three volumes on recent developments in colorectal diagnosis and therapy. Each volume can be read on its own, or together. Each volume focuses on different novel therapeutic advances, biomarkers, and identifies therapeutic targets for treatment. Written by leading international experts in the field, coverage addresses the role of diet habits and lifestyle in reducing gastrointestinal disorders and incidence of CRC. Chapters discuss current and future diagnostic and therapeutic options for colorectal cancer patients, focusing on immunotherapeutics, nanomedicine, biomarkers, and dietary factors for the effective management of colon cancer. This book presents a state-of-the-art overview of the research and development in designing electrode and electrolyte materials for Li-ion batteries and supercapacitors. Further, green energy production via the water splitting approach by the hydroelectric cell is also explored. Features include: • Provides details on the latest trends in design and optimization of electrode and electrolyte materials with key focus on enhancement of energy storage and conversion device performance • Focuses on existing nanostructured electrodes and polymer electrolytes for device fabrication, as well as new promising research routes toward the development of new materials for improving device performance • Features a dedicated chapter that explores electricity generation by dissociating water through hydroelectric cells, which are a nontoxic and green source of energy production • Describes challenges and offers a vision for next-generation devices This book is beneficial for advanced students and professionals working in energy storage across the disciplines of physics, materials science, chemistry, and chemical engineering. It is also a valuable reference for manufacturers of electrode/electrolyte materials for energy storage devices and hydroelectric cells. This volume originates from the proceedings of the International Conference on Nano for Energy and Water (NEW) & Indo French Workshop on Water Networking, 22-24 February, 2017 in Dehar. NEW-2017 is aimed at students, educators, researchers, scientists, engineers and industrialists, engaged in a wide range of nanotechnology fields and related applications. NEW-2017 will provide an ideal environment to develop new collaborations and meet experts of thematic areas. The conference aims to exchange the technical/scientific information with the representatives of various industries and R & D Organisations, to provide technical support to government and non-government agencies across the globe in policy planning and implementation in the relevant areas, to promote and document the recent developments in nanotechnology for energy and water applications and to highlight the future need of nanotechnology in different fields. Global Climate Change presents both

practical and theoretical aspects of global climate change from across geological periods. It addresses holistic issues related to climate change and its contribution in triggering the temperature increase with a multitude of impacts on natural processes. As a result, it helps to identify the gaps between policies that have been put in place and the continuously increasing emissions. The challenges presented include habitability, biodiversity, natural resources, and human health. It is organized into information on the past, present, and future of climate change to lead to a more complete understanding and therefore effective solutions. Placing an emphasis on recent climate change research, Global Climate Change helps to bring researchers and graduate students in climate science, environmental science, and sustainability up to date on the science of climate change so far and presents a baseline for how to move into the future effectively. Addresses the variety of challenges associated with climate change, along with possible solutions Includes suggestions for future research on climate change Covers climate change holistically, including global and regional scales, ecosystems, agriculture, energy, and sustainability Presents both practical and theoretical research, including coverage of climate change over various geological periods Understanding Information Technology series is written as per the requirements of the ICSE and CBSE schools, imparting knowledge in the field of Information and Technology. The series contains a number of special features: • The topics are explained in lucid language in a systematic way. • The series provides basic and comprehensive knowledge of the subject as per today's needs. • The presentation of the books makes the subject interesting for the students. • The series also contains a high-level language at all levels to develop the fundamental concept of programming techniques. This book provides comprehensive coverage of mobile data networking and mobile communications under a single cover for diverse audiences including managers, practicing engineers, and students who need to understand this industry. In the last two decades, many books have been written on the subject of wireless communications and networking. However, mobile data networking and mobile communications were not fully addressed in a unified fashion. This book fills that gap in the literature and is written to provide essentials of wireless communications and wireless networking, including Wireless Personal Area Networks (WPAN), Wireless Local Area Networks (WLAN), and Wireless Wide Area Networks (WWAN). The first ten chapters of the book focus on the fundamentals that are required to study mobile data networking and mobile communications. Numerous solved examples have been included to show applications of theoretical concepts. In addition, unsolved problems are given at the end of each chapter for practice. (A solutions manual will be available.) After introducing fundamental concepts, the book focuses on mobile networking aspects. Four chapters are devoted on the discussion of WPAN, WLAN, WWAN, and internetworking between WLAN and WWAN. Remaining seven chapters deal with other aspects of mobile communications such as mobility management, security, cellular network planning, and 4G systems. A unique feature of this book that is missing in most of the available books on wireless communications and networking is a balance between the theoretical and practical concepts. Moreover, this book can be used to teach a one/two semester course in mobile data networking and mobile communications to ECE and CS students. *Details the essentials of Wireless Personal Area Networks(WPAN), Wireless Local Are Networks (WLAN), and Wireless Wide Area Networks (WWAN) *Comprehensive and up-to-date coverage including the latest in standards and 4G technology *Suitable for classroom use in senior/first year grad level courses. Solutions manual and other instructor support available The book provides an up-to-date account of the various techniques of fabrication & functionalization of electrospun nanofibers as well as recent advancements. An overview of the advanced applications of such techniques in different areas is also presented. Both experimental and theoretical approaches related to electrospun nanofibers are covered along with a discussion on the inherent properties of electrospun nanofibers. Therefore, this book provides a unique resource not only to established researchers but also newcomers starting out in this field.

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