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AGADTANTRA Microneedle Drug Delivery  
System FLUID MECHANICS AND HYDRAULIC  
MACHINES Emerging Aquatic Contaminants  
Pharmacotherapeutic Botanicals for Cancer  
Chemoprevention Practical Instrumental  
Analysis Recent Developments in Biological  
Sciences OCCLUSAL IN IMPLANT  
PROSTHESIS M.S. Swaminatha Diagnosis and  
Treatment of Voice Disorders Current Trends in  
Science CERAMIC ENGINEERING  
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Crimes and Legal Measures Integrated  
Environmental Technologies for Wastewater  
Treatment and Sustainable Development  
Legacy, Pathogenic and Emerging  
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Advanced Research in Biotechnology &  
Nanobiotechnology Volume 2 Issue 2  
Proceedings of the Fourth International  
Conference on Microelectronics, Computing  
and Communication Systems Emerging Issues  
in the Water Environment during Anthropocene

Microelectronics, Communication Systems,  
Machine Learning and Internet of Things  
SURVEY OF RESEARCHES IN EDUCATION  
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and Signal Processing Clean Energy and  
Resource Recovery Bioactive Phytochemicals  
from Himalayas: A Phytotherapeutic Approach  
Pollutants and Protectants Nanoelectronics,  
Circuits and Communication Systems  
Handbook on Business Process Management 2  
Proceedings of the Third International  
Conference on Microelectronics, Computing  
and Communication Systems Proceeding of the  
Second International Conference on  
Microelectronics, Computing & Communication  
Systems (MCCS 2017) Multi-rotor Platform  
Based UAV Systems Resilience, Response, and  
Risk in Water Systems

This lucidly-written book, with its diagrammatic representation and practical examples, presents a comprehensive treatment of the fundamentals of engineering hydrology in the areas of elements of hydrological cycle, abstraction losses, streamflow measurement, runoff, hydrology statistics, flood frequency analysis and groundwater flow. Throughout the book, the text emphasises problem-solving in which students are encouraged to apply their

conceptual understanding in order to solve practical problems. This book is primarily intended for the undergraduate students of civil engineering and agricultural engineering. Stimuli Responsive Polymeric Membranes: Smart Polymeric Membranes explains the fundamentals and advances in topics relating to the field of membrane science. It elaborately explains concepts relating to stimuli responsive membranes, with special importance given down to minute details. Material selection, preparation, characterization and applications of various stimuli responsive membranes are extensively addressed, and their relevance (including examples) is included. The book covers history and development, merits and demerits, mechanisms of transport and fouling, applicability of membranes to various diverse areas, and preparation and characterization techniques of membranes. Next, the concept of fouling and its remedial actions is discussed. Finally, promising fields of research in the membrane science and future perspectives of membrane science field are explored. Provides basic and advanced knowledge of smart membranes, considering their morphological, physicochemical and separation characteristics Written in a clear and lucid style, keeping a diverse audience in mind Based on the state-of-

art research of the authors This book intends to bring together and integrate the subject matter of water quality. The book covers aspects of water related to climate change, emerging aspects of engineering sciences, biogeochemical sciences, hydro geochemistry, river management and morphology, social sciences, and public policy. The book covers the role of disruptive innovations in water management, policy formation and impact mitigation strategies. The book includes lab results as well as case studies. It provides recommendations and solutions for policy making and sustainable water management. The chapters in this book deal cohesively with many aspects of the water environment during the Anthropocene era. The contents cover myriad issues, such as land degradation, water scarcity, urbanization, climate change, and disruptive innovation. The book also discusses issues highly pertinent to society and sustainability, such as the prevalence of enteric viruses and pharmaceutical residues as a possible anthropogenic markers in the aquatic environment. The book will prove useful for students, professionals, and researchers working on various aspects of water related concerns. A number of tooth colored restorative materials have been used in dentistry. These have to be altered according to the procedures in modern practice .The quest for an artificial prosthesis similar to the natural tooth, both in function and esthetics, in the oral environment still remains as a foremost concern to the

dentist, which has led to the use of CERAMICS in dentistry. Clean Energy and Resource Recovery: Wastewater Treatment Plants as Biorefineries, Volume 2, summarizes the fundamentals of various treatment modes applied to the recovery of energy and value-added products from wastewater treatment plants. The book addresses the production of biofuel, heat, and electricity, chemicals, feed, and other products from municipal wastewater, industrial wastewater, and sludge. It intends to provide the readers an account of up-to-date information on the recovery of biofuels and other value-added products using conventional and advanced technological developments. The book starts with identifying the key problems of the sectors and then provides solutions to them with step-by-step guidance on the implementation of processes and procedures. Titles compiled in this book further explore related issues like the safe disposal of leftovers, from a local to global scale. Finally, the book sheds light on how wastewater treatment facilities reduce stress on energy systems, decrease air and water pollution, build resiliency, and drive local economic activity. As a compliment to Volume 1: Biomass Waste Based Biorefineries, Clean Energy and Resource Recovery, Volume 2: Wastewater Treatment Plants as Bio-refineries is a comprehensive reference on all aspects of energy and resource recovery from wastewater. The book is going to be a handy reference tool for energy researchers, environmental

scientists, and civil, chemical, and municipal engineers interested in waste-to-energy. Offers a comprehensive overview of the fundamental treatments and methods used in the recovery of energy and value-added products from wastewater. Identifies solutions to key problems related to wastewater to energy/resource recovery through conventional and advanced technologies and explore the alternatives. Provides step-by-step guidance on procedures and calculations from practical field data. Includes successful case studies from both developing and developed countries. The book presents a comprehensive and up-to-date overview of phytochemicals as efficient cancer therapeutics. Over the last few decades there has been a paradigm shift from conventional cancer therapeutic approaches to alternative and complementary medicinal approaches especially using phytoconstituents from natural products. As such, the book provides an in-depth understanding of phytochemicals targeting diverse signaling pathways involved in cancer along with the evaluation of the cancer modulatory effects of phytochemicals. It also highlights the potential modulatory effect of single nucleotide polymorphisms (SNPs) on the cancer-associated cellular pathways and their interactions with the phytochemicals. Further, it analyzes the drug delivery methods, bioavailability of active components of botanicals, and toxicity of phytochemicals. Lastly, the book elucidates the 3D cell culture and animal models systems to analyze the

beneficial effects of phytochemicals in cancer. The present book entitled 'Recent Developments in Biological Sciences' comprises 19 chapters by teachers and research scholars in their respective fields. We are thankful to all the contributors to contribute their research work and findings related to various fields of life sciences. This book covers several branches of biological research like Environmental Sciences, Medicinal Sciences, Aquatic Biology, Molecular Biology, Genetics, Animal Physiology, Taxonomy, Parasitology, Pharmaceutical Sciences, Biotechnology and Toxicology. Some of the topics covered in the book are nanocarriers for the treatment of neglected diseases, biological indicators, medicinal plants of desert, antituberculosis drugs, water bodies census, manganese immobilization, overview of human genetics, seasonal variations of cestode infection, environment and metabolic diseases, vitamins for health, biological activities of Elettaria, yoga and health, zooplanktonic diversity, floristic analysis of the family asteraceae, application of genetically modified microorganism, multifaceted potential of thioacetamide, taxonomic study of the genus Crotalaria and review on toxicological and therapeutic aspects of few metals, This book contains various materials suitable for students, researchers and academicians in the field of biological research. This book will be an interesting collection of original research articles and review articles written by subject experts in their respective

fields. We hope readers will be inspired by the contents of this book In this inspirational fiction, the author talks about the unlimited power and potential lying dormant in every soul, waiting to be awakened. The moment we become aware of the power within, we stop being a victim of circumstances, get off the autopilot called fate and take the reins of life in our hands. 'I Have The Controls' is about the journey of a boy from a small town who realises his dream of becoming a pilot, learns the lessons of life on the way and goes on to inspire others to follow their dreams. His Flying Instructor implants wisdom into the flying lessons and teaches him to take the flight of faith. The book shows the way - how, by aligning personal desires to the benefit of mankind, it is possible to lead a deeply rich and satisfying life. Manish Kumar has penned this extremely enjoyable story using flying as a metaphor. Peppered with the author's insights, this book is sure to touch and inspire you to break the shackles of self-limiting beliefs and to take off in life. Foreword by John Harricharan: I lead a hectic life and generally cannot answer the tens of thousands of emails that come to me every month. Much as I would like to respond, it's almost practically impossible. And so it was that I came upon a note sent to me by Manish Kumar. I don't quite remember when it started, but I kept seeing his name here and there, sometimes on my FaceBook page, other times through something a dear friend, Yasminder Verdi, would mention in an email. And that is

how I got to know Manish. It is not that we had met or had daily conversations. After all, he lives on the other side of the planet from where I am. It's more like his spirit was shining so brightly through his words and across the miles that I had to stop and take note. I am happy, very happy that I did. Why am I happy about this? Because I was given an opportunity to discover a rare treasure. You see, Manish had written a book called "I Have the Controls." He was kind enough to send me a draft copy to look at. I thought I would just glance through it, but then, as I started reading, I could not put it down. Manish uses the metaphor of flying to bring us some of the most life-affirming messages possible. In simple language, he leads us into a world where we find the gentle hints of that which we need to know. His chapter, "It's all about balance" as well as his formula for success, which he refers to as "IVR" would help anyone to reach goals that may have seemed unreachable. And, NO, I will not tell you what "IVR" stands for. You will have to find out for yourself and experience the thrill of discovery, just as I did. You will be happy that you found the formula. In some ways, "I Have the Controls" reminds me of one of my favorite authors, Richard Bach. Richard's books such as "Jonathan Livingston Seagull" and "Illusions" sit in a special place on my favorite bookshelf. I go there often for guidance and wisdom. Manish's book will be on that same special bookshelf. My suggestion is that you get yourself a copy of this book and read and reread it. I think you'll

find the answers to problems that have been challenging you for quite a while. And while you are at it, pick up a copy for someone near and dear to you. Share it with those you love. They will be grateful, very grateful. Thank you, Manish. Thank you for sharing your insights with us. Thank you for writing a book that has the potential to change many lives. And thank you for giving me the opportunity to read it. I look forward to reading your future books. I am sure many others will, also. John Harricharan is a world-renowned speaker, mentor, life teacher, author of the bestseller *When You Can Walk On Water, Take the Boat* and an incredible human being. "John Harricharan leads us along the enchanted path of enlightenment with magic, charm, love and compassion." -Dr. Deepak Chopra, author and spiritual guru. *Bioactive Phytochemicals from Himalayas: A Phytotherapeutic Approach* covers herbal medicines from the Himalayan mountains. Chapters in this book detail molecular mechanisms and experimental tools and techniques for research on plants in this region. Phytochemical experts guide the readers through the role of Himalayan plants in therapy for metabolic diseases like cancer and diabetes, hepatic diseases, inflammatory diseases, and neurodegenerative diseases. Some chapters focus on diseases and how various plants from Himalayan origin are beneficial in these diseases. This compilation, with professional contributors, aims to inform a wide scientific community

from various research fields about basic research on medicinal plants with a focus on Himalayan herbs. The book also serves as a handbook for pharmacologists working on the broad therapeutic aspects of these plants. The book *Practical Instrumental Analysis* is a genuine attempt to improve the practical knowledge of Pharm D students. The book is designed as per PCI regulations covering wide spectrum of Instrumental techniques like Spectroscopy, Colorimetric, Chromatography which includes Paper, Thin, Radial, Gradient & Isocratic HPLC, FTIR and Electrochemical analysis. The main objective of this book is to create interest in science of testing Active Pharmaceutical Ingredients and testing the purity in different dosage forms by various instrumental methods of analysis. Salient features of the book\* Based on PCI prescribed syllabus for Pharm D\* Provides basics of theory and practical in Instrumental analysis which includes principle and procedures.\* To understand the different modern techniques of Pharmaceutical Analysis.\* To appreciate the advantages of Instrumental methods in drug discovery. This is the time when legacy, pathogenic, and emerging contaminants must be talked about, understood, and dealt with together. While the geogenic contamination of the groundwater is a well-established phenomenon that is considered as legacy contaminants that risk people's health globally, both pathogenic and emerging contaminants like various water-borne pathogens and

pharmaceutical personal care products (PPCPs) are becoming imperative for their acute and chronic toxic effects. While contaminated groundwater consumption leads to skin pigmentation, hyperkeratosis, kidney damage, cardiovascular disease, and children's overall development, poor sanitation-related pathogenic microorganisms cause a significant number of child and prenatal deaths. Simultaneously, antibiotic microbial resistance (AMR) is expected to kill 100 million people by 2050. However, there are rare texts that combine aspects of all these three under a single book cover. This book gives an understanding of the occurrence, fate, and transport of geogenic, microbial, and anthropogenic contaminants in the groundwater. It covers not only the scientific and technical aspects but also environmental, legal, and policy aspects for contaminant management in the environment under the paradigm shift of COVID-19. This book is intended to bring the focus on the natural contaminants—biotic or abiotic—in the post-COVID Anthropocene, which is illustrating a significant alteration of systems and the subsequent downstream impacts owing to globalization. This book has compiled global work on emergence, mass flow, partitioning, and activation of geogenic, emerging, and pathogenic contaminants in various spheres of environment with special emphasis on soil, sediment, and aquatic systems for enhancing the understanding on their migration and

evolution for the welfare of mankind. This book features selected papers presented at the Fourth International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2018). Covering topics such as MEMS and nanoelectronics, wireless communications, optical communications, instrumentation, signal processing, the Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it offers a valuable resource for young scholars, researchers, and academics alike. The goal of industrial pharmacy is to produce, develop, and sell medications that are safe and effective, and to ensure the quality of these processes across the whole production and distribution cycle. Studies in the industrial pharmacy are conducted both independently and under the supervision of Faculty of Pharmacy. The goal of industrial pharmacist is to ensure that new pharmaceutical products include the necessary components and do not contain excessive doses of those chemicals. There are several sub-industries within the pharmaceutical sector, each of which plays an essential position in the chain that begins with drug development and ends with the medication being sold to consumers. Pharmacists have the good fortune of being able to make significant professional

contributions at almost every stage of the process. The regulatory affairs department of the pharmaceutical company is responsible for ensuring that the firm's drug products adhere to the guidelines set forth by the Medicines and Healthcare Products Regulatory Agency (MHRA), the Food and Drug Administration (FDA), and any other relevant regulatory bodies. Regulatory affairs groups also make sure that the product's intellectual property is appropriately secured by patent laws and can compete in the targeted market. Many pharmacists working in industry have branched out to other areas of the pharmaceutical business because of the opportunities it provides them to get expertise in a variety of settings. This volume presents peer-reviewed papers of the First International Conference on Microelectronics, Communication Systems, Machine Learning, and the Internet of Things (MCMCI-2020). This book discusses recent trends in technology and advancement in microelectronics, nano-electronics, VLSI design, IC technologies, wireless communications, optical communications, SoC, advanced instrumentations, signal processing, internet of things, machine learning, image processing, green energy, hybrid vehicles, weather forecasting, cloud computing, renewable energy, CMOS sensors, actuators, RFID, transducers, real-time embedded system, sensor network and applications, EDA design tools and techniques, fuzzy logic & artificial intelligence, high-performance computer

architecture, AI-based robotics & applications, brain-computer interface, deep learning, advanced operating systems, supply chain development & monitoring, physical systems design, ICT applications, e-farming, information security, etc. It includes original papers based on theoretical, practical, experimental, simulations, development, application, measurement, and testing. The applications and solutions discussed in the book will serve as good reference material for young scholars, researchers, and academics. Subhadra was a naughty child. Therefore, her parents took special care of her. She was often scolded because of her sharp and prankishful nature. But she was very kind at heart. She behaved very politely even with the servants of her house. The Bihar state is a wonderful example of natural; cultural; political and intellectual prosperity as well as dense diversity of the geographical structure. The land of Bihar; full of glorious past and inspirational traditions; has the distinction of being the birthplace and workplace of great personalities. The presented book provides complete and comprehensive information about Bihar. Comprising 38 chapters; it not only analyzes the historical; geographical; political; social; cultural; and economic conditions of the state in detail; but it also presents limitless possibilities of future development. The logical and interesting presentation of the visible progress and change in Bihar presently; makes it unique. This book is completely useful and readable; not only from

the point of view of the candidates; but also for the guidance of research students; teachers and readers. Major Highlights of Bihar General Knowledge • Freedom Movement and Separate Bihar Movement • Art and Culture • Major Personalities • Agriculture and Irrigation • Population and Domicile • Tourism and Disaster Management • Major Commissions • Local Self Governance • Economic Indices • Poverty and Unemployment • State Policies and Industrial Policies • Start-up Policy; 2017 • Information and Communication Technology Policy; 2011 • Bihar Advertisement Policy; 2016 • Bihar Right to Public Services Act; 2011 • Bihar Agricultural Land (Conversion for Non-Agriculture Purposes) Act; 2010 • Bihar Right to Public Grievance Redressal Act; 2015 • Bihar Prohibition and Excise Act; 2016 • Economic Survey 2020-21 and Bihar Budget 2021-22 • Effects of Partition • Demand of Special Status for the State • Economic Backwardness and Potential of Growth • Good Governance and Seven Resolutions • Bihar Foundation Day • Statistical Presentation The volume presents high quality papers presented at the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017). The book discusses recent trends in technology and advancement in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing,

renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes original papers based on original theoretical, practical, experimental, simulations, development, application, measurement, and testing. The applications and solutions discussed in the book will serve as a good reference material for future works. Biography of M.S. Swaminathan: Inspirational Biographies for Children by Manish Kumar 'Santosh': This book is a biography of M.S. Swaminathan, an Indian geneticist and agricultural scientist who has made significant contributions to the field of sustainable agriculture. The book explores his early life, his education, and his research and innovations in the field, as well as his role in promoting sustainable development and alleviating poverty in India. Key Aspects of the Book "Biography of M.S. Swaminathan: Inspirational Biographies for Children": Biography of M.S. Swaminathan: The book provides an in-depth look at the life of M.S. Swaminathan, from his childhood to his accomplishments as a geneticist and agricultural scientist. Research and Innovations in Sustainable Agriculture: The book explores Swaminathan's research and innovations in sustainable agriculture, highlighting his role in promoting food security and alleviating poverty in India. Promotion of Sustainable Development: The book also explores Swaminathan's role in promoting sustainable development and his advocacy for

social justice and environmental conservation. Manish Kumar 'Santosh' is an Indian writer and educator who has written several biographies of notable historical figures, including Biography of M.S. Swaminathan: Inspirational Biographies for Children, which explores the life and contributions of an Indian geneticist and agricultural scientist who has made significant contributions to sustainable development and alleviating poverty in India. Reference on the basic science of the voice, laryngeal disorders, diagnosis, and management. Includes new treatment processes and updated information about psychotropic medications, new chapters on non-medical management of benign voice disorders and the role of the voice specialist. This book talks about the dynamics of the surface water-groundwater contaminant interactions under different environmental conditions across the world. The contents of the book highlight trends of monitoring, prediction, awareness, learning, policy, and mitigation success. The book provides a description of the background processes and factors controlling resilience, risk, and response of water systems, contributing to the development of more efficient, sustainable technologies and management options. It integrates methodologies and techniques such as data science and engineering, remote sensing, modelling, analytics, synthesis and indices, disruptive innovations and their utilization in water management, policy making, and



mitigation strategies. The book is intended to be a comprehensive reference for students, professionals, and researchers working on various aspects of science and technology development. It will also prove a useful resource for policy makers and implementation specialists. This book presents high-quality papers from the Fourth International Conference on Microelectronics, Computing & Communication Systems (MCCS 2019). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communication, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements and testing. The applications and solutions discussed here provide excellent reference material for future product development. Advances in technological developments have led to increase in buildup of pollutants in the environment. Increase in concentration of pollutants due to ill planned anthropogenic activities has created a situation of a serious concern for human race. The present book addresses the issues related to increase in concentration of pollutants in the

biosphere, protocols to assess the toxicity of pollutants and how it can affect human race. It also summarizes some protective agents present in the form of natural products which can protect us from the harmful effects of these pollutants. The first chapter of the book focuses on carcinogenicity of environmental pollutants. Next four chapters focus on specific emerging pollutants which have increased in concentration due to anthropogenic activities. These are followed by a couple of chapters on the analytical aspects and various techniques and bioassays that can be used to estimate the toxic effects of these pollutants. In the last three chapters of book authors have tried to compile information available regarding the phytochemicals which can have protective effects against the carcinogenic nature of pollutants. This comprehensive book is an earnest endeavour to apprise the readers with a thorough understanding of all important basic concepts and methods of fluid mechanics and hydraulic machines. The text is organised into sixteen chapters, out of which the first twelve chapters are more inclined towards imparting the conceptual aspects of fluids mechanics, while the remaining four chapters accentuate more on the details of hydraulic machines. The book is supplemented with solutions manual for instructors containing detailed solutions of all chapter-end unsolved problems. Primarily intended as a text for the undergraduate students of civil, mechanical, chemical and aeronautical engineering, this book will be of

immense use to the postgraduate students of hydraulics engineering, water resources engineering, and fluids engineering. Key features

- The book describes all concepts in easy-to-grasp language with diagrammatic representation and practical examples.
- A variety of worked-out examples are included within the text, illustrating the wide applications of fluid mechanics.
- Every chapter comprises summary that presents the main idea and relevant details of the topics discussed.
- Almost all chapters incorporate objective type questions of previous years' GATE examinations, along with their answers and in-depth explanations.
- Previous years' IES conventional questions are provided at the end of most of the chapters.
- A set of theoretical questions and numerous unsolved numerical problems are provided at the chapter-end to help the students from practice point-of-view.
- Every chapter consists of a section Suggested Reading comprising a list of publications that the students may refer for more detailed information.

Emerging Aquatic Contaminants: One Health Framework for Risk Assessment and Remediation in the Post COVID-19 Anthropocene highlights various sources and pathways of emerging contamination, including their distribution, occurrence, and fate in the aquatic environment. The book provides detailed insight into emerging contaminants' mass flow and behavior in various spheres of the subsurface environment. Possible treatment strategies, including bioremediation and

natural attenuation, are discussed. Ecotoxicity, relative environmental risk, human health risk, and current policies, guidelines, and regulations on emerging contaminants are analyzed. This book serves as a pillar for future studies, with the aim of bio-physical remediation and natural attenuation of biotic and abiotic pollution. Includes real-world applications and case studies to show how these practices can be adopted Presents global coverage, with a diverse list of contributors, all of whom are experts in the field Uses illustrative diagrams to provide a clear and foundational understating of the topics

PREFACE It gives me immense pleasure to share a few sentences as preface of the 'Survey of Research Abstract of Faculty of Education (K)', Banaras Hindu University, Varanasi. As we are aware that educational research aimed at developing curriculum, syllabus, textbooks, instructional materials, assessment modules, pedagogical innovations and qualitative practices and reforms. Information and communication technology, e-resources, e-contents, on-line mode of curricular transactions are becoming more prominent and effective in certain domains worldwide. Researches at doctoral and post-doctoral level are to be addressed the issues related to community, it needs and aspirations, curriculum (advances to be incorporate) and teaching-learning processes in order to make education updated, fulfilling the developmental needs, updated education refines the

sensitivities of the learners to be constructive and productive in their approaches to bring desired development for themselves and for the society at large. Fast changing scenario on expected to lines and also on unexpected lines, both demand multifaceted preparedness to meet the challenges of life, likely to emerge. The present covid-19 situation has forced people globally to be locked down to fight against fatal corona virus. Under the situation researches and education processes one unique features such as: online mode of teaching-learning, development of e-content & e-resources, digital pedagogy, curricular flexibility, alternate system of evaluation and examinations, teachers knowledge base and preparedness and students achievement etc. all these have put forwards new areas of study. The comprehensive volume II of the Research Abstract includes eighty Ph.D. thesis and two hundred P.G. dissertations, covered various areas, including educational psychology, philosophy, sociology, technology, curricular studies, examination, evaluation, discipline-based pedagogies etc. Volume provides a rich knowledge base to readers to find knowledge gap in a particular areas for further research design in a way researcher finds a direction to proceed with a new problem with a sound research plan. I on behalf of the Faculty of Education and on my own behalf convey my sincere congratulations to the entire team of the publication and to Prof. S. K. Singh, the chief editor of the volume. I am sure readers

will be immensely benefited from this great volume. Date: 26th May, 2020 (R. P. Shukla)

M.S. Swaminathan, the famous agricultural scientist, was born on August 7, 1925 in Kombakonam of Tamil Nadu state in South India. His full name is Monkombu Sambashivan Swaminathan. Business Process Management (BPM) has become one of the most widely used approaches for the design of modern organizational and information systems. The conscious treatment of business processes as significant corporate assets has facilitated substantial improvements in organizational performance but is also used to ensure the conformance of corporate activities. This Handbook presents in two volumes the contemporary body of knowledge as articulated by the world's leading BPM thought leaders. This second volume focuses on the managerial and organizational challenges of BPM such as strategic and cultural alignment, governance and the education of BPM stakeholders. As such, this book provides concepts and methodologies for the integration of BPM. Each chapter has been contributed by leading international experts. Selected case studies complement their views and lead to a summary of BPM expertise that is unique in its coverage of the most critical success factors of BPM. The second edition of this handbook has been significantly revised and extended. Each chapter has been updated to reflect the most current developments. This includes in particular new technologies such as in-memory



data and process management, social media and networks. A further focus of this revised and extended edition is on the actual deployment of the proposed theoretical concepts. This volume includes a number of entire new chapters from some of the world's leading experts in the domain of BPM. This book comprises select proceedings of the International Conference on VLSI, Communication and Signal processing (VCAS 2018). It looks at latest research findings in VLSI design and applications. The book covers a wide range of topics in electronics and communication engineering, especially in the area of microelectronics and VLSI design, communication systems and networks, and image and signal processing. The contents of this book will be useful to researchers and professionals alike. Multi-rotor Platform Based UAV Systems provides an excellent opportunity for experiential learning, capability augmentation and confidence-building for senior level undergraduates, entry-level graduates, engineers working in government agencies, and industry involved in UAV R&D. Topics in this book include an introduction to VTOL multi-copter UAV platforms, UAV system architecture, integration in the national airspace, including UAV classification and associated missions, regulation and safety, certification and air traffic management, integrated mission planning, including autonomous fault tolerant path planning and vision based auto landing systems, flight

mechanics and stability, dynamic modeling and flight controller development. Other topics covered include sense, detect and avoid systems, flight testing, including safety assessment instrumentation and data acquisition telemetry, synchronization data fusion, the geo-location of identified targets, and much more. Provides an excellent opportunity for experiential learning, capability augmentation and confidence building for senior level undergraduates, entry-level graduates and engineers working in government, and industry involved in UAV R&D Includes MATLAB/SIMULINK computational tools and off-the-shelf hardware implementation tutorials Offers a student centered approach Provides a quick and efficient means to conceptualize, design, synthesize and analyze using modeling and simulations Offers international perspective and appeal for engineering students and professionals Integrated Environmental Technologies for Wastewater Treatment and Sustainable Development provides comprehensive and advanced information on integrated environmental technologies and their limitations, challenges and potential applications in treatment of environmental pollutants and those that are discharged in wastewater from industrial, domestic and municipal sources. The book covers applied and recently developed integrated technologies to solve five major trends in the field of wastewater treatment, including nutrient

removal and resource recovery, recalcitrant organic and inorganic compounds detoxification, energy saving, and biofuel and bioenergy production for environmental sustainability. The book provides future directions to young researchers, scientists and professionals who are working in the field of bioremediation and phytoremediation to remediate wastewater pollutants at laboratory and field scale, for sustainable development. Illustrates the importance of various advanced oxidation processes in effluent treatment plants Describes underlying mechanisms of constructed wetland-microbial fuel cell technologies for the degradation and detoxification of emerging organic and inorganic contaminants discharged in wastewater Highlights the reuse and recycling of wastewater and recovery of value-added resources from wastewater Focuses on recent advances and challenges in integrated environmental technologies, constructed wetland-microbial fuel cell, microbial electrochemical-constructed wetlands, biofilm reactor-constructed wetland, and anammox-microbial fuel cell technology for sustainable development Illustrates the importance of microbes and plants in bio/phytoremediation and wastewater treatment India's diverse climate ensures availability of all varieties of fresh fruits & vegetables. This book focuses on good practices for growing a healthy vegetable crops and obtaining a reasonably steady yield. It provides practical information on small-scale

cultivation, plant protection measures, harvesting, storing, post-harvest handling, processing, and marketing of vegetables. We hope this information will be helpful to vegetable growers, whether beginners or more experienced farmers, extension workers and agricultural teachers. ABOUT IJARBN International Journal of Advanced Research in Biotechnology & Nanobiotechnology is a Peer-reviewed, Quarterly Scientific Research Journal Published from Amity Institute of Biotechnology, Amity University Madhya Pradesh, Gwalior. The book presents high-quality papers from the Third International Conference on Microelectronics, Computing & Communication Systems (MCCS 2018). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements, and testing. The applications and solutions discussed in the book provide excellent reference material for future product development. "Applications of Machine Learning in Analytical Chemistry" is a

comprehensive guide for anyone interested in understanding the fundamentals of ML and its application in analytical chemistry. The book is divided into 5 units, starting with ML basics such as categories, tools, data cleaning, and setup. The 2nd unit covers various ML algorithms such as regression, classification, clustering, ensemble modeling, and deep learning. The 3rd unit is dedicated to ML techniques in chemical product engineering, covering solutions for chemical product engineering issues, and chemical reaction forecasting. The 4th unit focuses on big data and ML for chemistry, discussing compound identification, ML-based synthesis prediction, and electronic drug design. The 5th and final unit discusses biosensors and sensors for the internet of things and intelligent systems, highlighting their potential applications and present limitations. The book is an excellent resource for analytical chemists, data scientists, and anyone interested in exploring the applications of ML in analytical chemistry.

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