

R K Bansal Engineering Mechanics

MATLAB and Its Applications in Engineering Photocatalysis Role of Data-Intensive Distributed Computing Systems in Designing Data Solutions Smart and Innovative Trends in Next Generation Computing Technologies Smart Computer Vision Artificial Intelligence, Blockchain, Computing and Security Volume 2 Algal Technologies for Wastewater Treatment and Resource Recovery Mechanical Engineering The Illinois Engineer Record of the ... Intersociety Energy Conversion Engineering Conference IEEE Membership Directory The Gazette of India Kenya Telephone Directory Detroit Engineer & Michigan Engineering Directory Industrial Water Engineering Journal of Agricultural Engineering Proceedings of the ASME Manufacturing Engineering Division ... 1990 IIE Integrated Systems Conference & Society for Integrated Manufacturing Conference Transactions of the Mining, Geological and Metallurgical Institute of India Raj Kumar Bansal Suresh C. Pillai Sarvesh Pandey Pushpak Bhattacharyya B. Vinoth Kumar Arvind Dagur Raul Muñoz Institute of Electrical and Electronics Engineers India American Consulting Engineers Council IIE Integrated Systems Conference\$ (1990 : San Antonio, Tex.)

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the book serves to be both a textbook and a reference for the theory and laboratory courses offered to undergraduate and graduate engineering students and for practicing engineers

this book is a concise and up to date introduction to the topic of photocatalysis it covers the fundamentals of photocatalysis design of photoreactors and modelling and simulations for photoreaction also industrial applications such as hydrogen production water disinfection degradation of air pollutants pesticides and pharmaceuticals are described

this book discusses the application of data systems and data driven infrastructure in existing

industrial systems in order to optimize workflow utilize hidden potential and make existing systems free from vulnerabilities the book discusses application of data in the health sector public transportation the financial institutions and in battling natural disasters among others topics include real time applications in the current big data perspective improving security in iot devices data backup techniques for systems artificial intelligence based outlier prediction machine learning in openflow network and application of deep learning in blockchain enabled applications this book is intended for a variety of readers from professional industries organizations and students

the two volume set ccis 827 and 828 constitutes the thoroughly refereed proceedings of the third international conference on next generation computing technologies ngct 2017 held in dehradun india in october 2017 the 135 full papers presented were carefully reviewed and selected from 948 submissions there were organized in topical sections named smart and innovative trends in communication protocols and standards smart and innovative trends in computational intelligence and data science smart and innovative trends in image processing and machine vision smart innovative trends in natural language processing for indian languages smart innovative trends in security and privacy

this book addresses and disseminates research and development in the applications of intelligent techniques for computer vision the field that works on enabling computers to see identify and process images in the same way that human vision does and then providing appropriate output the book provides contributions which include theory case studies and intelligent techniques pertaining to computer vision applications the book helps readers grasp the essence of the recent advances in this complex field the audience includes researchers professionals practitioners and students from academia and industry who work in this interdisciplinary field the authors aim to inspire future research both from theoretical and practical viewpoints to spur further advances in the field

this book contains the conference proceedings of icabcs 2023 a non profit conference with the objective to provide a platform that allows academicians researchers scholars and students from various institutions universities and industries in india and abroad to exchange their research and innovative ideas in the field of artificial intelligence blockchain computing and security it explores the recent advancement in field of artificial intelligence blockchain communication and security in this digital era for novice to profound knowledge about cutting edges in artificial intelligence financial secure transaction monitoring real time assistance and security for advanced stage learners researchers academicians the key features of this book are broad knowledge and research trends in artificial intelligence and blockchain with security and their role in smart living assistance depiction of system model and architecture for clear picture of ai in real life discussion on the role of artificial intelligence and blockchain in various real life problems across sectors including banking healthcare navigation communication security explanation of the challenges and opportunities in ai and blockchain based healthcare education banking and related industries this book will be of great interest to researchers academicians undergraduate students postgraduate students research scholars industry professionals technologists and entrepreneurs

over 80 of globally produced wastewater receives little or no treatment before it is disposed into the environment therefore it is urgent to develop new wastewater treatment technologies that are sustainable in the broad sense of the word i.e. not only produce high quality effluents but also minimise energy expenses recover energy and nutrients and apply technology that is appropriate in relation to the availability of skilled personnel this book compiles the main outcomes of recent efforts to improve the design of waste stabilisation ponds and confirms the superior performance of high rate algal ponds as a result of process intensification anaerobic digestion devoted to biogas production continues to be the preferred strategy for the energy valorisation of the algal biomass co digestion with multiple high c/n ratio substrates gathering significant attention over the past years the potential of algal biomass as a biosorbent for heavy metal removal continues to maintain its share in the research field of water bioremediation while research on nutrient removal has focused on providing new insights on the mechanism of nitrogen and phosphorus removal from wastewater in algal bacterial systems finally it is worth noticing that breakthroughs in complementary fields of research such as nanotechnology or lighting technology are gradually being implemented in algal biotechnology with new products such as nanoparticles for water disinfection or photobioreactors illuminated by low intensity led panels in focus a book series that showcases the latest accomplishments in water research each book focuses on a specialist area with papers from top experts in the field it aims to be a vehicle for in depth understanding and inspire further conversations in the sector

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