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Industrial Applications of 3D
Printed Polymer Composites
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This book focuses on the home textiles market and its products such as furnishings, floor coverings, carpets, curtains and draperies, living room furnishings, bed linens, kitchen linens, hospital linens, towels etc. The book discusses latest developments and future

prospectus in the home textile industry. This book is useful for textile and fashion technology students, researchers, industry and textile engineers. The book is a compilation of high-quality scientific papers presented at the 3rd International Conference on Computer & Communication Technologies (IC3T 2016). The individual papers address cutting-edge technologies and applications of soft computing, artificial intelligence and communication. In addition, a variety of further topics are discussed, which include data mining, machine intelligence, fuzzy computing, sensor networks, signal and image processing, human-computer

interaction, web intelligence, etc. As such, it offers readers a valuable and unique resource. Polymer composite materials are of prime importance and play a vital role in numerous applications. 3D printed polymer composites have been adopted by the aerospace, medical, and automobile industries. However, many challenges and opportunities for the development and application of 3D printed polymer composites have yet to be covered. Development, Properties, and Industrial Applications of 3D Printed Polymer Composites concentrates on cutting-edge technologies and materials as well as processing methods and

industrial applications. It further discusses case studies, process issues, challenges, and more. Covering topics such as additive manufacturing, medical engineering, and fused deposition modeling, this premier reference source is essential for manufacturers, engineers, business leaders and executives, hospital administrators, students and faculty of higher education, librarians, researchers, and academicians. The book aims to provide a deeper understanding of the synergistic impact of Artificial intelligence (AI) and the Internet of Things (IoT) for disease detection. It presents a collection of topics designed to

explain methods to detect different diseases in humans and plants. Chapters are edited by experts in IT and machine learning, and are structured to make the volume accessible to a wide range of readers. Key Features: - 17 Chapters present information about the applications of AI and IoT in clinical medicine and plant biology - Provides examples of algorithms for heart diseases, Alzheimer's disease, cancer, pneumonia and more - Includes techniques to detect plant disease - Includes information about the application of machine learning in specific imaging modalities - Highlights the use of a variety of advanced Deep learning techniques like

Mask R-CNN - Each chapter provides an introduction and literature review and the relevant protocols to follow The book is an informative guide for data and computer scientists working to improve disease detection techniques in medical and life sciences research. It also serves as a reference for engineers working in the healthcare delivery sector. This book comprises the select proceedings of the International Conference on Materials, Design and Manufacturing for Sustainable Environment (ICMDMSE 2020). The primary focus is on emerging materials and cutting-edge manufacturing

technologies for sustainable environment. The book covers a wide range of topics such as advanced materials, vibration, tribology, finite element method (FEM), heat transfer, fluid mechanics, energy engineering, additive manufacturing, robotics and automation, automobile engineering, industry 4.0, MEMS and nanotechnology, optimization techniques, condition monitoring, and new paradigms in technology management. Contents of this book will be useful to students, researchers, and practitioners alike. Polymeric Nanoparticles as Promising Tool for Anti-cancer Therapeutics provides an understanding of polymeric

compounds and their use in cancer therapies. The book begins by giving an overview of the current status, future challenges and potential utilization of polymeric nanoparticles. It then covers specific polymeric nanoparticles through contributions from world-renowned experts and researchers. Chapters examine specific polymeric nanoparticles, their development as potential targeted delivery systems, and cancer characteristics that can be targeted for therapy development. The book synthesizes current research trends in the field, thus enhancing existing knowledge

of nanomedicine, drug delivery and therapeutic intervention strategies in human cancers. Users will find this to be an ideal reference for research scientists and those in the pharmaceutical and medical fields who are working to develop novel cancer therapies using nanoparticle-based delivery systems. Explores the development of polymeric nanoparticle systems for the purpose of cancer therapy Presents thoroughly analyzed data and results regarding the usage of polymeric nanoparticles-based platforms for the diagnosis and treatment of cancer Highlights various cancer characteristics that can be targeted for therapeutic

development using polymeric nanoparticles This book presents select proceedings of the 8th International and 29th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2021). It discusses the latest advances in miniature manufacturing, machining of miniature components, surface engineering, nanomaterials, nanotechnology, Industry 4.0, optimization techniques, micro-electric discharge machining, electrochemical micro-machining, thin films, optimization of micro-machining process parameters, machining of nano-composites, characterization using atomic force microscopy, micro-tool

fabrications, characterization of nano-composites, surface roughness analysis, tribological performance of surface coated materials and sustainability in manufacturing. The contents of this book are useful for students, researchers and as well as industry professionals in the various fields of mechanical engineering. This two-volume set of LNICST 411 and 412 constitutes the refereed post-conference proceedings of the 9th International Conference on Advancement of Science and Technology, ICAST 2021, which took place in August 2021. Due to COVID-19 pandemic the conference was held virtually. The 80 revised full papers were

carefully reviewed and selected from 202 submissions. The papers present economic and technologic developments in modern societies in 7 tracks: Chemical, Food and Bioprocess Engineering; Electrical and Electronics Engineering; ICT, Software and Hardware Engineering; Civil, Water Resources, and Environmental Engineering ICT; Mechanical and Industrial Engineering; Material Science and Engineering; Energy Science, Engineering and Policy. This book comprises the select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). This volume

focuses on current research in fluid and thermal engineering and covers topics such as heat transfer enhancement and heat transfer equipment, heat transfer in nuclear applications, microscale and nanoscale transport, multiphase transport and phase change, multi-mode heat transfer, numerical methods in fluid mechanics and heat transfer, refrigeration and air conditioning, thermodynamics, space heat transfer, transport phenomena in porous media, turbulent transport, theoretical and experimental fluid dynamics, flow measurement techniques and instrumentation, computational fluid dynamics, fluid

machinery, turbo machinery and fluid power. Given the scope of its contents, this book will be interesting for students, researchers as well as industry professionals. Electric power systems are being transformed from older grid systems to smart grids across the globe. The goals of this transition are to address today's electric power issues, which include reducing carbon footprints, finding alternate sources of decaying fossil fuels, eradicating losses that occur in the current available systems, and introducing the latest information and communication technologies (ICT) for electric grids. The development of smart grid

technology is advancing dramatically along with and in reaction to the continued growth of renewable energy technologies (especially wind and solar power), the growing popularity of electric vehicles, and the continuing huge demand for electricity. Smart Grid Systems: Modeling and Control advances the basic understanding of smart grids and focuses on recent technological advancements in the field. This book provides a comprehensive discussion from a number of experts and practitioners and describes the challenges and the future scope of the technologies related to smart grid. Key features: provides an overview

of the smart grid, with its needs, benefits, challenges, existing structure, and possible future technologies discusses solar photovoltaic (PV) system modeling and control along with battery storage, an integral part of smart grids discusses control strategies for renewable energy systems, including solar PV, wind, and hybrid systems describes the inverter topologies adopted for integrating renewable power covers the basics of the energy storage system and the need for micro grids describes forecast techniques for renewable energy systems presents the basics and structure of the energy management system in smart

grids, including advanced metering, various communication protocols, and the cyber security challenges explores electric vehicle technology and its interaction with smart grids The garment manufacturing industry faces many global challenges due to various factors including competition, increased production costs, less productivity/efficiency and labor attribution. So, there is a need to focus and concentrate on identifying the real issues, taking corrective actions suited to the specific industrial centre of the unit, empowering the technical and managerial staff by enhancing their knowledge and ability, analysing orders

efficiently and deciding whether actions are viable for the company. Industrial engineering in apparel production reviews the techniques for internal correction and openness for a knowledge/technology approach that needs to be built into the mind of the faculties to be upgraded as system run, rather than people run. The author emphasizes that the industrial engineering concept needs to be imparted to the facilities to increase productivity. With its highly distinguished author, Industrial engineering in apparel production is a valuable reference for students, researchers, industrialists,

academics and professionals in the clothing and textile industry. This two-volume set constitutes the refereed post-conference proceedings of the 8th International Conference on Advancement of Science and Technology, ICAST 2020, which took place in Bahir Dar, Ethiopia, in October 2020. The 74 revised full papers were carefully reviewed and selected from more than 200 submissions of which 157 were sent out for peer review. The papers present economic and technologic developments in modern societies in 6 tracks: Chemical, food and bio-process engineering; Electrical and computer engineering; IT, computer science and software

engineering; Civil, water resources, and environmental engineering; Mechanical and industrial engineering; Material science and engineering. In the automotive and aerospace industries, the need for strong yet light materials has given rise to extensive research into aluminum and magnesium alloys and formable titanium alloys. All of these are categorized as light weight materials. The distinguishing feature of light weight materials is that they are low density, but they have a wide range of properties and, as a result, a wide range of applications. This book provides researchers and

students with an overview of the recent advancements in light weight material processing, manufacturing and characterization. It contains chapters by eminent researchers on topics associated with light weight materials, including on the current buzzword "composite materials". First, this book describes the current status of light weight materials. Then, it studies applications of these materials, given that, as the densities vary, so do the applications, ranging from automobiles and aviation to bio-mechatronics. This book will therefore serve as an excellent guide to this field. The Book Problems in Physics

is designed to serve as an independent source of concepts and numericals in selected chapters of physics. It is prepared keeping in view the requirements of undergraduate students pursuing courses in science and engineering. It can also be helpful to those who are appearing for competitive examinations. This book provides a comprehensive presentation of artificial intelligence (AI) methodologies and tools valuable for solving a wide spectrum of engineering problems. What's more, it offers these AI tools on an accompanying disk with easy-to-use software. Artificial Intelligence and Expert Systems for Engineers details

the AI-based methodologies known as: Knowledge-Based Expert Systems (KBES); Design Synthesis; Design Critiquing; and Case-Based Reasoning. KBES are the most popular AI-based tools and have been successfully applied to planning, diagnosis, classification, monitoring, and design problems. Case studies are provided with problems in engineering design for better understanding of the problem-solving models using the four methodologies in an integrated software environment. Throughout the book, examples are given so that students and engineers can acquire skills in the use of AI-based methodologies for application

to practical problems ranging from diagnosis to planning, design, and construction and manufacturing in various disciplines of engineering. Artificial Intelligence and Expert Systems for Engineers is a must-have reference for students, teachers, research scholars, and professionals working in the area of civil engineering design in particular and engineering design in general. This book comprises the select proceedings of the ETAEERE 2016 conference. The book aims to shed light on different systems or machines along with their complex operation, behaviors, and linear-nonlinear relationship in different

environments. It covers problems of multivariable control systems and provides the necessary background for performing research in the field of control and automation. Aimed at helping readers understand the classical and modern design of different intelligent automated systems, the book presents coverage on the control of linear and nonlinear systems, intelligent systems, stochastic control, knowledge-based systems applications, fault diagnosis and tolerant control, real-time control applications, etc. The contents of this volume will prove useful to researchers and professionals alike. This volume comprises select proceedings

of the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The papers in this volume focus on forming and machining, and discuss both conventional technologies and the latest developments and innovations, including both experimental studies and simulations; while those on automation present the latest research on hardware as well as software aspects. This volume will be of interest to researchers, and practicing engineers alike. This book is designed for undergraduate students of all branches, and those who study Control Systems Engineering as one of

the subjects in their curriculum. It is also a reference book for PG students. The contents of the book are presented in lucid style so that even an average student can grasp the subject. Many number of simple and complex problems are worked out to strengthen the theory. Most of the topics are presented in lucid manner so that the students belong to various branches like Electrical, Communication, Instrumentation and Mechanical Engineering can easily understand the subject. More than 250 worked out examples, 120 practice problems and 150 short questions and answers are

given. It covers the entire syllabus of most of the Universities in India, with particular focus to Anna University, JNTU, University of Kerala, CUSAT, MG University, BPTU, VTU, UPTU, WBTU, and University of Bombay. Methods to draw Bode plots without much analytical calculations are given. Theory and problems on Nyquist criterion made simple. Methods of compensator design (using root locus and frequency response) are presented in lucid manner. Solutions to University question papers are included in a separate annexure. An introductory course on analog and digital communications is fundamental to the

undergraduate program in electrical engineering. This course is usually offered at the junior level. Typically, it is assumed that the student has a background in calculus, electronics, signals and systems, and possibly probability theory. Bearing in mind the introductory nature of this course, a textbook recommended for the course must be easy to read, accurate, and contain an abundance of insightful examples, problems, and computer experiments. These objectives of the book are needed to expedite learning the fundamentals of communication systems at an introductory level and in an effective manner. This book has

been written with all of these objectives in mind. Given the mathematical nature of communication theory, it is rather easy for the reader to lose sight of the practical side of communication systems. Throughout the book, we have made a special effort not to fall into this trap. We have done this by moving through the treatment of the subject in an orderly manner, always trying to keep the mathematical treatment at an easy-to-grasp level and also pointing out practical relevance of the theory wherever it is appropriate to do so. Chemical Solution Synthesis for Materials Design and Thin Film Device Applications presents

current research on wet chemical techniques for thin-film based devices. Sections cover the quality of thin films, types of common films used in devices, various thermodynamic properties, thin film patterning, device configuration and applications. As a whole, these topics create a roadmap for developing new materials and incorporating the results in device fabrication. This book is suitable for graduate, undergraduate, doctoral students, and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes. Provides the different wet chemical routes for materials synthesis,

along with the most relevant thin film structured materials for device applications. Discusses patterning and solution processing of inorganic thin films, along with solvent-based processing techniques. Includes an overview of key processes and methods in thin film synthesis, processing and device fabrication, such as nucleation, lithography and solution processing. This book is a collection of research articles and critical review articles, describing the overall approach to energy management. The book emphasizes the technical issues that drive energy efficiency in context of power systems. This book contains

case studies with and without solutions on modelling, simulation and optimization techniques. It covers some innovative topics such as medium voltage (MV) back-to-back (BTB) system, cost optimization of a ring frame unit in textile industry, rectenna for radio frequency (RF) energy harvesting, ecology and energy dimension in infrastructural designs, 2.4 kW three-phase inverter for aircraft application, study of automatic generation control (AGC) in a two area hydrothermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line

communication using LabVIEW. This book is primarily targeted at researchers and senior graduate students, but is also highly useful for the industry professional and scientists. This volume comprises select proceedings of ETAEERE-2016. The volume offers state-of-the-art chapters on energy management systems (EMS), renewable energy resources, micro-generation, green communications architectures and frameworks, green computing and education as well as energy-aware process optimization. The contents covers a wide variety of topics and aspects including management of renewable

energy systems and environmental challenges. The contents of this volume will be useful to researchers and practicing engineers working in the areas of smart grids and renewable energy generation, distribution, and management. This book discusses the extraction, purification, modification, and processing of biobased materials and their various industrial applications, across biomedical, pharmaceutical, construction, and other industries. It includes contributions from experts on hybrid biopolymers and bio-composites, bioactive and biodegradable materials, bio-inert polymers, natural polymers and composites, and

metallic natural materials. Therefore, this encyclopedia is a useful reference for scientists, academicians, research scholars, and technologists. Major challenges of biobased materials are their efficient development, cost-effective, and green & environment friendly production/applications. This encyclopedia answers these challenges to professionals and scientists for proper utilization of biobased materials. It presents the recent practices of biobased materials technology in different scientific and engineering domains. It helps the bounded industrial outcomes to reach the general readership of different

domains. This encyclopedia bridges the technological gaps between the industrial and academic professionals and the novice young students/scholars. The interdisciplinarity of this encyclopedia makes it unique for a wide readership. The topic of biobased materials is currently popular in the scientific community, working in such following areas as Recycled materials, Renewable materials, Materials for efficiency, Materials for waste treatment, Materials for reduction of environmental load, Materials for easy disposal or recycle, Hazardous free materials, Materials for reducing human health impact,

Materials for energy efficiency, Materials for green energy, etc. This is a relatively hot topic in materials science and has strong demands for energy, material and money savings, as well as heavy contamination problems, despite that the area of biobased materials belongs to most important fields of modern science & technology, no important encyclopedias have been published in the area of “biobased materials” These proceedings collect the papers presented at the 30th International Symposium on Shock Waves (ISSW30), which was held in Tel-Aviv Israel from July 19 to July 24, 2015. The Symposium was organized by Ortra Ltd. The ISSW30 focused

on the state of knowledge of the following areas: Nozzle Flow, Supersonic and Hypersonic Flows with Shocks, Supersonic Jets, Chemical Kinetics, Chemical Reacting Flows, Detonation, Combustion, Ignition, Shock Wave Reflection and Interaction, Shock Wave Interaction with Obstacles, Shock Wave Interaction with Porous Media, Shock Wave Interaction with Granular Media, Shock Wave Interaction with Dusty Media, Plasma, Magnetohydrodynamics, Re-entry to Earth Atmosphere, Shock Waves in Rarefied Gases, Shock Waves in Condensed Matter (Solids and Liquids), Shock Waves in Dense

Gases, Shock Wave Focusing, Richtmyer-Meshkov Instability, Shock Boundary Layer Interaction, Multiphase Flow, Blast Waves, Facilities, Flow Visualization, and Numerical Methods. The two volumes serve as a reference for the participants of the ISSW30 and anyone interested in these fields. This book presents selected proceedings of the 8th International and 29th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2021). It covers the recent developments in the areas of metal forming and machining techniques, incremental forming, microforming, nesting algorithms, process simulation,

parameter analysis, tools and tooling, tool wear, condition monitoring, cyber physical systems, robotics, machine vision, intelligent manufacturing, enterprise manufacturing intelligence, etc. The contents of this book will be useful for students, researchers as well as industry professionals in the various fields of mechanical engineering. This book shares the technical knowhow in the field of health, safety and environmental management, as applied to oil and gas industries and explains concepts through a simple and straightforward approach Provides an overview of health, safety and environmental

(HSE) management as applied to offshore and petroleum engineering Covers the fundamentals of HSE and demonstrates its practical application Includes industry case studies and examples based on the author's experiences in both academia and oil and gas industries Presents recent research results Includes tutorials and exercises IEMERA is a three-day International Conference specially designed with cluster of scientific and technological sessions, providing a common platform for the researchers, academicians, industry delegates across the globe to share and exchange their knowledge and contribution.

The emerging areas of research and development in Electrical, Electronics, Mechanical and Software technologies are major focus areas. The conference is equipped with well-organized scientific sessions, keynote and plenary lectures, research paper and poster presentations and world-class exhibitions. Moreover, IEMERA 2020 facilitates better understanding of the technological developments and scientific advancements across the world by showcasing the pace of science, technology and business areas in the field of Energy Management, Electronics, Electric & Thermal Power, Robotics and Automation. Electric power

systems are being transformed from older grid systems to smart grids across the globe. The goals of this transition are to address today's electric power issues, which include reducing carbon footprints, finding alternate sources of decaying fossil fuels, eradicating losses that occur in the current available systems, and introducing the latest information and communication technologies (ICT) for electric grids. The development of smart grid technology is advancing dramatically along with and in reaction to the continued growth of renewable energy technologies (especially wind and solar power), the growing

popularity of electric vehicles, and the continuing huge demand for electricity. Smart Grid Systems: Modeling and Control advances the basic understanding of smart grids and focuses on recent technological advancements in the field. This book provides a comprehensive discussion from a number of experts and practitioners and describes the challenges and the future scope of the technologies related to smart grid. Key features: provides an overview of the smart grid, with its needs, benefits, challenges, existing structure, and possible future technologies discusses solar photovoltaic (PV) system modeling and control along

with battery storage, an integral part of smart grids discusses control strategies for renewable energy systems, including solar PV, wind, and hybrid systems describes the inverter topologies adopted for integrating renewable power covers the basics of the energy storage system and the need for micro grids describes forecast techniques for renewable energy systems presents the basics and structure of the energy management system in smart grids, including advanced metering, various communication protocols, and the cyber security challenges explores electric vehicle technology and its interaction

with smart grids Smart Nanoconcretes and Cement-Based Materials: Properties, Modelling and Applications explores the fundamental concepts and applications of smart nanoconcretes with self-healing, self-cleaning, photocatalytic, antibacterial, piezoelectrical, heating and conducting properties and how they are used in modern high-rise buildings, hydraulic engineering, highways, tunnels and bridges. This book is an important reference source for materials scientists and civil engineers who are looking to enhance the properties of

smart nanomaterials to create stronger, more durable concrete. Explores the mechanisms through which active agents are released from nanocontainers inside concrete Shows how embedded smart nanosensors, including carbon cement-based smart sensors and micro/nano strain-sensors, are used to increase concrete performance Discusses the major challenges of integrating smart nanomaterials into concrete composites The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It

includes high-quality research papers from the 3rd international conference, ICICCD 2018, organized by the Department of Electronics, Instrumentation and Control Engineering at the University of Petroleum and Energy Studies, Dehradun on 21-22 December 2018. Covering a range of recent advances in intelligent communication, intelligent control and intelligent devices., the book presents original research and findings as well as researchers' and industrial practitioners' practical development experiences of.