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Papers presented at an All India Seminar on Advances in Product Development, 17-18 February 2006. Plates: Theories and Applications provides a comprehensive introduction to plate structures, covering classical theory and applications. It considers plate structures in several forms, starting from the simple uniform, thin, homogeneous metallic structure to more efficient and durable alternatives involving features such as variable-thickness, lamination, sandwich construction, fiber reinforcement, functional gradation, and moderately-thick to very-thick geometry. Different theoretical models are then discussed for analysis and design purposes starting from the classical thin plate theory to alternatives obtained by incorporation of appropriate complicating effects or by using fundamentally different assumptions. Plates: Theories and Applications alsocovers the latest developments on the topic. Water is regarded as an important element for sustainable development and many countries are attempting to provide clean water for municipal and industrial sectors. Owning to population explosion, industrial activities, agricultural practices and urbanisation, water bodies are polluted with various pollutants such as dyes, heavy metals, etc.. This first volume focuses on utilization of different promising nanocomposites for water and wastewater remediation. It provides an overview of wastewater treatment technologies, and explores the performace of materials such as organic-inorganic polymer hybrids, hydroxyapatite, magnetic composites (with polymers and biomaterials), zeolites, and so on in water and wastewater decontamination. The present edition takes into account various types of pristine and modified materials in different water treatment methods such as adsorption, catalysis and photocatalysis. Recent advances and developments are discussed in this book, and it provides a valuable resource for researchers and professionals in different fields such as environmental and chemical engineering. 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. Revised to reflect recent developments in the field, Phase Transformation in Metals and Alloys, Fourth Edition, continues to be the most authoritative and approachable resource on the subject. It supplies a comprehensive overview of specific types of phase transformations, supplemented by practical case studies of engineering alloys. The book’s unique presentation links a basic understanding of theory with application in a gradually progressive yet exciting manner. Based on the authors’ teaching notes, the text takes a pedagogical approach and provides examples for applications and problems that can be readily used for exercises. NEW IN THE FOURTH EDITION 40% of the figures and 30% of the text Insights provided by numerical modelling techniques such as ab initio, phase field, cellular automaton, and molecular dynamics Insights from the application of advanced experimental techniques, such as high-energy X-ray diffraction, high-resolution transmission electron microscopy, scanning electron microscopy, combined with electron backscattered diffraction New treatment of ternary phase diagrams and solubility products The concept of paraequilibrium in systems containing highly mobile interstitial elements Thermodynamics of grain boundaries and the influence of segregation on grain boundary diffusion Reference to software tools for solving diffusion problems in multicomponent systems Introduction to concepts related to coincident site lattices and methods for determining the dislocation content of grain boundaries and interfaces Updated treatment of coherency and interface structure including the important fcc–bcc interfaces Treatment of metallic glasses expanded to cover critical cooling rate Austin–Rickets equation introduced as an alternative to the Avrami equation in the case of precipitation kinetics Discussion of the effects of overlap in nucleation, growth and coarsening Discussion of pearlite and bainite transformations updated Entirely new and extensive treatment of diffusionless martensitic transformations covering athermal and thermally activated martensite in ferrous systems as well as shape memory, superelasticity and rubber-like behavior in ordered nonferrous alloys New practical applications covering spinodal alloys, fir-tree structures in aluminum castings, Al–Cu–Li aerospace alloys, superelastic and shape memory alloys, quenched and partitioned steels, advanced high-strength steels and martensitic stainless steels Each chapter now concludes with a summary of the main points References to scientific publications and suggestions for further reading updated to reflect experimental and computational advances Aimed at students studying metallurgy and materials science and engineering, the Fourth Edition retains the previous editions’ popular easy-to-follow style and excellent mix of basic and advanced information, making it ideal for those who are new to the field. A new solutions manual and PowerPoint figure slides are available to adopting professors. Sustainable Material Solutions for Solar Energy Technologies: Processing Techniques and Applications provides an overview of challenges that must be addressed to efficiently utilize solar energy. The book explores novel materials and device architectures that have been developed to optimize energy conversion efficiencies and minimize environmental impacts. Advances in technologies for harnessing solar energy are extensively discussed, with topics including materials processing, device fabrication, sustainability of materials and manufacturing, and current state-of-the-art. Leading international experts discuss the applications, challenges, and future prospects of research in this increasingly vital field, providing a valuable resource for students and researchers working in this field. Explores the fundamentals of sustainable materials for solar energy applications, with in-depth discussions of the most promising material solutions for solar energy technologies: photocatalysis, photovoltaic, hydrogen production,

harvesting and storage Discusses the environmental challenges to be overcome and importance of efficient materials utilization for clean energy Looks at design materials processing and optimization of device fabrication via metrics such as power-to-weight ratio, effectiveness at EOL compared to BOL, and life-cycle analysis Information Security, written by Dr. Venkata Subbaiah Desanamukula, Mr. M Janardhan, Dr. Ch. Ramesh Babu • Best Selling Book in English Edition for Banking Awareness For Mains Exam with objective-type questions as per the latest syllabus given by the Banking Exam Conducting Bodies. • Compare your performance with other students using Smart Answer Sheets in EduGorilla's Banking Awareness For Mains Exam Practice Kit. • Banking Awareness For Mains Exam Preparation Kit comes with 31 Topic-wise Tests with the best quality content. • Increase your chances of selection by 14X. • Banking Awareness For Mains Exam Prep Kit comes with well-structured and 100% detailed solutions for all the questions. • Clear exam with good grades using thoroughly Researched Content by experts. Eco-efficient Repair and Rehabilitation of Concrete Infrastructures provides an updated state-of-the-art review on eco-efficient repair and rehabilitation of concrete infrastructure. The first section focuses on deterioration assessment methods, and includes chapters on stress wave assessment, ground-penetrating radar, monitoring of corrosion, SHM using acoustic emission and optical fiber sensors. Other sections discuss the development and application of several new innovative repair and rehabilitation materials, including geopolymer concrete, sulfoaluminate cement-based concrete, engineered cementitious composites (ECC) based concrete, bacteria-based concrete, concrete with encapsulated polyurethane, and concrete with super absorbent polymer (SAPs), amongst other topics. Final sections focus on crucial design aspects, such as quality control, including lifecycle and cost analysis with several related case studies on repair and rehabilitation. The book will be an essential reference resource for materials scientists, civil and structural engineers, architects, structural designers and contractors working in the construction industry. Delivers the latest research findings with contributions from leading international experts Provides fully updated information on the European standard on materials for concrete repair (EN 1504) Includes an entire sections on the state-of-the-art in NDT, innovative repair and rehabilitation materials, as well as LCC and LCA information 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 Solutions to Problems Advanced Accounts Vol-1 Biodegradable Polymer Blends and Composites from Renewable Resources provides a comprehensive, current overview of biopolymeric blends and composites and their applications in various industries. The book is organized according to the type of blend or composite. For each topic, the relationship between the structure of the blends/composites and their respective properties is explored, with particular focus on interface, compatibility, mechanical, and thermal properties. Real-life applications and potential markets are discussed. This is a premier reference for graduate students and researchers in polymer science, chemical and bio engineering, and materials science. 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 The edited volume includes papers in the fields of fuzzy mathematical analysis and advances in computational mathematics. The fields of fuzzy mathematical analysis and advances in computational mathematics can provide valuable solutions to complex problems. They have been applied in multiple areas such as high dimensional data analysis, medical diagnosis, computer vision, hand-written character recognition, pattern recognition, machine intelligence, weather forecasting, network optimization, VLSI design, etc. The volume covers ongoing research in fuzzy and computational mathematical analysis and brings forward its recent applications to important real-world problems in various fields. The book includes selected high-quality papers from the International Conference on Fuzzy Mathematical Analysis and Advances in Computational Mathematics (FMAACM 2020). 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. According to the Concurrent Engineering Research Center (CERC) at West Virginia University, "the concurrent engineering (CE) is a rapid simultaneous approach where research and development, design, manufacturing and support are carried out in parallel". The mission of concurrent engineering is to reduce time to market, improve total quality and lower cost for products or systems developed and supported by large organizations. The purpose of the concurrent design methodology is to let the designer know the consequences of his design decisions in the manufacturing and assembly stages as well as in subsequent operations. Design for manufacture and assembly, design for reliability and testability, CAD/CAM/CAE, knowledge based systems, cost analysis and advanced material technology are the major constituents of concurrent engineering. The need for concurrent engineering can be justified from the fact that in every production cycle, the design phase approximately takes 5 to 10% of the total cycle, but overall it influences 80% of the production cycle. This volume contains articles from a wide spectrum dealing with concepts of concurrent engineering. The importance of the knowledge-based systems in the CE environment is significant as they provide the common platform to achieve the same level of expertise to the designers and manufacturers throughout the organization for the specific task. Their role in "do it right the first time" is very important in providing aid to the designers and manufacturers to optimize the design and manufacturing setups for a cost effectiveness and reduced production time. 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 comprises a number of state-of-the-art contributions from both scientists and practitioners working in a large pool of fields where AI and IoT can open up new horizons. Artificial intelligence and Internet of Things have introduced themselves today as must-have technologies in almost every sector. Ranging from agriculture to industry and health care, the scope of applications of AI and IoT is as wide as the horizon. Nowadays, these technologies are extensively used in developed countries, but they are still at an early stage in emerging countries. AI and IoT for Sustainable Development in Emerging Countries—Challenges and Opportunities is an invaluable source to dive into the latest applications of AI and IoT and how they have been used by researchers from emerging countries to solve sustainable development-related issues by taking into consideration the specifities of their countries. This book starts by presenting how AI and IoT can tackle the challenges of sustainable development in general and then focuses on the following axes: · AI and IoT for smart environment and energy · Industry 4.0 and intelligent transportation · A vision towards an artificial intelligence of medical things · AI, social media, and big data analytics. It aspires to provide a relevant reference for students, researchers, engineers, and professionals working in these particular areas or those interested in grasping its diverse facets and exploring the latest advances on their respective fields and the role of AI and IoT in them. A comparative study of ancient literary works derived from manuscripts. To provide a study and research platform on Siddha Varma Healing System - The ancient system of Healing. Recent developments in information technology have enabled collection and processing of vast amounts of personal, business and spatial data. This study is carried out to provide the mission-goal strategy (requirements) to predict disasters. The co-location rules of spatial data mining are proved to be appropriate to design nuggets for disaster identification. A framework has been suggested. The aim of this paper is to find a solution using Informatica software. In Indian context. This book summarizes many of the recent research accomplishments in the area of polyvinylchloride (PVC)-based blends and their preparation, characterization and applications. Various sub-topics are addressed, such as the state-of-the-art of PVC based blends, new challenges and opportunities, emphasis being given to the types and sizes of components/fillers and optimum compositions of PVC blends, their processing and structure-properties relationships, modification/compatibilization methods, and possible applications. PVC/thermoplastic based nano, micro and macro blends, PVC membranes, bio-based plasticizers and PVC blends with components from renewable resources are reported. The various chapters in this book are contributed by prominent researchers from industry, academia and government/private research laboratories across the globe. It covers an up-to-date record on the major findings and observations in the field of PVC-based blends. The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings ofthe Second International Conference on Computer Science and InformationTechnology, CCSIT 2012, held in Bangalore, India, in January 2012. The 66 revised full papers presented in this volume were carefully reviewed andselected from numerous submissions. The papers are organized in topical sectionson networks and communications; wireless and mobile networks; and network security. The book includes peer-reviewed papers of the International Conference on Sustainable Technology and Advanced Computing in Electrical Engineering (ICSTACE 2021). The main focus of the book is electrical engineering. The conference aims to provide a global platform to the researchers for sharing and showcasing their discoveries/findings/innovations. The book focuses on the areas related to sustainable development and includes research works from academicians and industry experts. The book discusses new challenges and provides solutions at the interface of technology, information, complex systems, and future research directions. This volume constitutes the thoroughly refereed post-conference proceedings of the 5th

International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2014, held in Bhubaneswar, India, in December 2014. The total of 96 papers presented in this volume was carefully reviewed and selected from 250 submissions for inclusion in the proceedings. The papers cover a wide range of topics in swarm, evolutionary, memetic and other intelligent computing algorithms and their real world applications in problems selected from diverse domains of science and engineering. This book gathers the proceedings of the plenary sessions, invited lectures, and papers presented at the International Conference on Recent Trends in Materials Science and Applications (ICRTMSA-2016). It also features revealing presentations on various aspects of Materials Science, such as nanomaterials, photonic crystal fibers, quantum dots, thin film techniques, crystal growth, spectroscopic procedures, fabrication and characterisation of new materials / compounds with enhanced features, and potential applications in nonlinear optical and electro-optic devices, solar cell device, chemical sensing, biomedical imaging, diagnosis and treatment of cancer, energy storage device etc. This book will be of great interest to beginning and seasoned researchers alike. Integrating aspects of engineering, application physics, and medical science, Solid-State Radiation Detectors: Technology and Applications offers a comprehensive review of new and emerging solid-state materials-based technologies for radiation detection. Each chapter is structured to address the current advantages and challenges of each material and technology presented, as well as to discuss novel research and applications. Featuring contributions from leading experts in industry and academia, this authoritative text: Covers modern semiconductors used for radiation monitoring Examines CdZnTe and CdTe technology for imaging applications including three-dimensional capability detectors Highlights interconnect technology for current pixel detectors Describes hybrid pixel detectors and their characterizations Tackles the integrated analog signal processing read-out front ends for particle detectors Considers new organic materials with direct bandgap for direct energy detection Summarizes recent developments involving lanthanum halide and cerium bromide scintillators Analyzes the potential of recent progress in the field of crystallogenesis, quantum dots, and photonics crystals toward a new concept of x- and gamma-ray detectors based on metamaterials Explores position-sensitivity photomultipliers and silicon photomultipliers for scintillation crystals Solid-State Radiation Detectors: Technology and Applications provides a valuable reference for engineers and scientists looking to enhance the performance of radiation detector technology for medical imaging and other applications. The treatment of textile wet processing effluent to meet stringent governmental regulations is a complex and continually evolving process. Treatment methods that were perfectly acceptable in the past may not be suitable today or in the future. This book provides new ideas and processes to assist the textile industry in meeting the challenging requirements of treating textile effluent.

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