

Material Science And Engineering Vijaya Rangarajan

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Advances in Computer, Communication and Control - Utpal Biswas
2019-02-14

The book discusses the recent research trends in various sub-domains of computing, communication and control. It includes research papers presented at the First International Conference on Emerging Trends in Engineering and Science. Focusing on areas such as optimization techniques, game theory, supply chain, green computing, 5g networks, Internet of Things, social networks, power electronics and robotics, it is a useful resource for academics and researchers alike.

Supply Chain Engineering - A. Ravi Ravindran 2016-04-19

Winner of 2013 IIE/Joint Publishers Book-of-the-Year Award Emphasizing a quantitative approach, Supply Chain Engineering: Models and Applications provides state-of-the-art mathematical models, concepts, and solution methods important in the design, control, operation, and management of global supply chains. The text provides an understanding of

Handbook of Thermoset Plastics - Hanna Dodiuk 2021-10-25

Handbook of Thermoset Plastics, Fourth Edition provides complete coverage of the chemical processes, manufacturing techniques and design properties of each polymer, along with its applications. This new edition has been expanded to include the latest developments in the field, with new chapters on radiation curing, biological adhesives, vitrimers, and 3D printing. This detailed handbook considers the practical implications of using thermoset plastics and the relationships between processing, properties and applications, as well as analyzing the strengths and weakness of different methods and applications. The aim of the book is to help the reader to make the right decision and take the correct action on the basis of informed analysis - avoiding the pitfalls the authors' experience has uncovered. In industry, the book supports engineers, scientists, manufacturers and R&D professionals working with plastics. The information included will also be of interest to researchers and advanced students in plastics engineering, polymer chemistry, adhesives and coatings. Offers a systematic approach, guiding the reader through chemistry, processing methods, properties and applications of thermosetting polymers Includes thorough updates that discuss current practice and the new developments on biopolymers, nanotechnology, 3D printing, radiation curing and biological adhesives Uses case studies to demonstrate how particular properties make different polymers suitable for different applications Covers end-use and safety considerations

Advances in Engineering Materials - Bhupendra Prakash Sharma
2021-04-16

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). This book, in particular, focuses on characterizing materials using novel techniques. It covers a variety of advanced materials, viz. composites, coatings, nanomaterials, materials for fuel cells, biomaterials among others. The book also discusses advanced characterization techniques like X-ray photoelectron, UV spectroscopy, scanning electron, atomic power, transmission electron and laser confocal scanning fluorescence microscopy, and gel electrophoresis chromatography. This book gives the readers an insight into advanced material processes and characterizations with special emphasis on nanotechnology.

Advances in VLSI, Communication, and Signal Processing - David Harvey 2020-10-14

This book comprises select peer-reviewed papers from the International Conference on VLSI, Communication and Signal processing (VCAS) 2019, held at Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj, India. The contents focus on latest research in different domains of electronics and communication engineering, in particular microelectronics and VLSI design, communication systems and networks, and signal and image processing. The book also discusses the

emerging applications of novel tools and techniques in image, video and multimedia signal processing. This book will be useful to students, researchers and professionals working in the electronics and communication domain.

Bio-Fiber Reinforced Composite Materials - K. Palanikumar
2022-03-02

This book provides an overview on the latest technology and applications of bio-based fiber composite materials. It covers the mechanical and thermal properties of bio-fibers for polymeric resins and explains the different pre-treatment methods used by the researchers for the enhancement. In addition, this book also presents a complete analysis on the tribological behavior of bio-fiber reinforced polymer composites to appreciate the friction and wear behavior. This book would be a handy to the industrial practitioners and researchers in the direction of achieving optimum design for the components made of natural fiber based polymer matrix composites.

Advances in VLSI, Communication, and Signal Processing - Debashis Dutta 2019-12-03

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.

Innovations and Applications of AI, IoT, and Cognitive Technologies - Jingyuan Zhao 2021-02

Student-staff Directory - University of Illinois at Urbana-Champaign
2009

Groundwater Assessment, Modeling, and Management - M. Thangarajan 2016-09-15

Your Guide to Effective Groundwater Management Groundwater Assessment, Modeling, and Management discusses a variety of groundwater problems and outlines the solutions needed to sustain surface and ground water resources on a global scale. Contributors from around the world lend their expertise and provide an international perspective on groundwater management. They address the management of groundwater resources and pollution, waste water treatment methods, and the impact of climate change on groundwater and water availability (specifically in arid and semi-arid regions such as India and Africa). Incorporating management with science and modeling, the book covers all areas of groundwater resource assessment, modeling, and management, and combines hands-on applications with relevant theory. For Water Resource Managers and Decision Makers The book describes techniques for the assessment of groundwater potential, pollution, prevention, and remedial measures, and includes a new approach for groundwater modeling based on connections (network theory). Approximately 30 case studies and six hypothetical studies are introduced reflecting a range of themes that include: groundwater basics and the derivation of groundwater flow equations, exploration and assessment, aquifer parameterization, augmentation of aquifer, water and environment, water and agriculture, the role of models and their application, and water management policies and issues. The book describes remote sensing (RS) applications, geographical information systems (GIS), and electrical resistivity methods to delineate groundwater potential zones. It also takes a look at: Inverse modeling (pilot-points method) Simulation optimization models Radionuclide migration studies through mass transport modeling Modeling for

mapping groundwater potential Modeling for vertical 2-D and 3-D groundwater flow Groundwater Assessment, Modeling, and Management explores the management of water resources and the impact of climate change on groundwater. Expert contributors provide practical information on hydrologic engineering and groundwater resources management for students, researchers, scientists, and other practicing professionals in environmental engineering, hydrogeology, irrigation, geophysics, and environmental science.

Big Data and Smart Digital Environment - Yousef Farhaoui
2019-02-21

This book reviews the state of the art of big data analysis and smart city. It includes issues which pertain to signal processing, probability models, machine learning, data mining, database, data engineering, pattern recognition, visualisation, predictive analytics, data warehousing, data compression, computer programming, smart city, etc. Data is becoming an increasingly decisive resource in modern societies, economies, and governmental organizations. Data science inspires novel techniques and theories drawn from mathematics, statistics, information theory, computer science, and social science. Papers in this book were the outcome of research conducted in this field of study. The latter makes use of applications and techniques related to data analysis in general and big data and smart city in particular. The book appeals to advanced undergraduate and graduate students, postdoctoral researchers, lecturers and industrial researchers, as well as anyone interested in big data analysis and smart city.

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018) - U. Chandrasekhar 2018-12-20

This book gathers the best articles presented by researchers and industrial experts at the International Conference on "Innovative Design and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018)". The papers discuss new design concepts, analysis and manufacturing technologies, with an emphasis on achieving improved performance by downsizing; improving the weight-to-strength ratio, fuel efficiency, and operational capability at room and elevated temperatures; reducing wear and tear; and addressing NVH aspects, while balancing the challenges of Euro IV/Barat Stage IV emission norms and beyond, greenhouse effects, and recyclable materials. The innovative methods discussed here offer valuable reference material for educational and research organizations, as well as industry, encouraging them to pursue challenging projects of mutual interest.

Universities Handbook - 2010

Dynamics of Smart Structures - Ranjan Vepa 2010-03-10

Dynamics of Smart Structures is a practical, concise and integrated text that provides an introduction to the fundamental principles of a field that has evolved over the recent years into an independent and identifiable subject area. Bringing together the concepts, techniques and systems associated with the dynamics and control of smart structures, it comprehensively reviews the differing smart materials that are employed in the development of the smart structures and covers several recent developments in the field of structural dynamics. Dynamics of Smart Structures has been developed to complement the author's new interdisciplinary programme of study at Queen Mary, University of London that includes courses on emerging and new technologies such as biomimetic robotics, smart composite structures, micro-electro-mechanical systems (MEMS) and their applications and prosthetic control systems. It includes chapters on smart materials and structures, transducers for smart structures, fundamentals of structural control, dynamics of continuous structures, dynamics of plates and plate-like structures, dynamics of piezoelectric media, mechanics of electro-actuated composite structures, dynamics of thermo-elastic media: shape memory alloys, and controller designs for flexible structures.

Annual Index/abstracts of SAE Technical Papers - 1996

Machine Learning in Chemistry - Hugh M Cartwright 2020-07-15

Progress in the application of machine learning (ML) to the physical and life sciences has been rapid. A decade ago, the method was mainly of interest to those in computer science departments, but more recently ML tools have been developed that show significant potential across wide areas of science. There is a growing consensus that ML software, and related areas of artificial intelligence, may, in due course, become as fundamental to scientific research as computers themselves. Yet a perception remains that ML is obscure or esoteric, that only computer scientists can really understand it, and that few meaningful applications in scientific research exist. This book challenges that view. With

contributions from leading research groups, it presents in-depth examples to illustrate how ML can be applied to real chemical problems. Through these examples, the reader can both gain a feel for what ML can and cannot (so far) achieve, and also identify characteristics that might make a problem in physical science amenable to a ML approach. This text is a valuable resource for scientists who are intrigued by the power of machine learning and want to learn more about how it can be applied in their own field.

India's Long Road - Vijay Joshi 2017

"India's surge in high, well-sustained economic growth captured the world's attention for much of the period from the 1990s to the early 2010s. Often paired with China as being at the leading edge of emerging economies, the last few years have witnessed shortfalls in India's performance, which have also occurred in the cases of other "BRICS," namely, Brazil, Russia, and South Africa. India is now facing a possible fiscal crisis, higher inflation, greater concentration of economic wealth, and a slowdown in productivity. While its business sector remains vigorous, the Indian state has not yet found a viable way to fund food subsidies or come to grips with the costs of its employment guarantee program. Corruption also hinders growth at many turns. All these factors bring into question how feasible or wise it is for India to pursue a path toward global political power rather than concentrate on improved economic engagement worldwide. Dr. Joshi believes India's economic problems are serious and systemic, not a temporary blip. His analysis sets forth that the only way the country can truly prosper is to find the means to return to the earlier levels of growth through massive economic reform. This policy reorientation calls for eliminating price controls as well as both explicit and hidden subsidies to industries, introduction of direct cash transfers to the poor in place of the state's own costly production of goods and services, and an aggressive move toward privatization rather than over-reliance on family firms and widely-held corporations. Without these, the requisites of economic stability cannot be fully established, let alone propel significant growth"--

IBM Journal of Research and Development - 1989

The Indian Concrete Journal - 1990

Indian Science Abstracts - 1992-10

Handbook of Research on Emerging Trends and Applications of Machine Learning - Solanki, Arun 2019-12-13

As today's world continues to advance, Artificial Intelligence (AI) is a field that has become a staple of technological development and led to the advancement of numerous professional industries. An application within AI that has gained attention is machine learning. Machine learning uses statistical techniques and algorithms to give computer systems the ability to understand and its popularity has circulated through many trades. Understanding this technology and its countless implementations is pivotal for scientists and researchers across the world. The Handbook of Research on Emerging Trends and Applications of Machine Learning provides a high-level understanding of various machine learning algorithms along with modern tools and techniques using Artificial Intelligence. In addition, this book explores the critical role that machine learning plays in a variety of professional fields including healthcare, business, and computer science. While highlighting topics including image processing, predictive analytics, and smart grid management, this book is ideally designed for developers, data scientists, business analysts, information architects, finance agents, healthcare professionals, researchers, retail traders, professors, and graduate students seeking current research on the benefits, implementations, and trends of machine learning.

Advances in Lightweight Materials and Structures - A. Praveen Kumar 2020-10-13

This book presents select proceedings of the International Conference on Advanced Lightweight Materials and Structures (ICALMS) 2020, and discusses the triad of processing, structure, and various properties of lightweight materials. It provides a well-balanced insight into materials science and mechanics of both synthetic and natural composites. The book includes topics such as nano composites for lightweight structures, impact and failure of structures, biomechanics and biomedical engineering, nanotechnology and micro-engineering, tool design and manufacture for producing lightweight components, joining techniques for lightweight structures for similar and dissimilar materials, design for manufacturing, reliability and safety, robotics, automation and control, fatigue and fracture mechanics, and friction stir welding in lightweight

sandwich structures. The book also discusses latest research in composite materials and their applications in the field of aerospace, construction, wind energy, automotive, electronics and so on. Given the range of topics covered, this book can be a useful resource for beginners, researchers and professionals interested in the wide ranging applications of lightweight structures.

Advances in Manufacturing Processes - K. S. Vijay Sekar 2018-09-10

This book comprises selected proceedings of the International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM 2018). It discusses innovative manufacturing processes, such as rapid prototyping, nontraditional machining, advanced computer numerical control (CNC) machining, and advanced metal forming. The book particularly focuses on finite element simulation and optimization, which aid in reducing experimental costs and time. This book is a valuable resource for students, researchers, and professionals alike.

Urban Ecology, Water Quality and Climate Change - Arup K. Sarma 2018-03-14

This unique book brings together high-quality research contributions on ecological aspects of urbanization, water quality concerns in an urban environment, and climate change issues with a strong Indian focus under one umbrella. It includes several case studies that discuss urban water management, particularly highlighting the quality aspects. Urbanization is an ecological disturbance that the modern world accepts as essential in the absence of a better alternative that could provide an equal level of comfort. The prohibitive costs of eco-friendly production technologies are forcing the developing world to generate industrial waste that is detrimental to the environment. At the same time, the availability of adequate fresh water is another challenge for our climate-change impacted world. The scientific community is, therefore, searching for ways towards ecologically sustainable urban development. Discussing all these issues, this book offers a useful guide for academicians, researchers, practicing engineers, and managers dealing with diverse water-related problems in urban areas.

Theory and Applications of Computational Chemistry - Clifford Dykstra 2011-10-13

Computational chemistry is a means of applying theoretical ideas using computers and a set of techniques for investigating chemical problems within which common questions vary from molecular geometry to the physical properties of substances. *Theory and Applications of Computational Chemistry: The First Forty Years* is a collection of articles on the emergence of computational chemistry. It shows the enormous breadth of theoretical and computational chemistry today and establishes how theory and computation have become increasingly linked as methodologies and technologies have advanced. Written by the pioneers in the field, the book presents historical perspectives and insights into the subject, and addresses new and current methods, as well as problems and applications in theoretical and computational chemistry. Easy to read and packed with personal insights, technical and classical information, this book provides the perfect introduction for graduate students beginning research in this area. It also provides very readable and useful reviews for theoretical chemists. * Written by well-known leading experts * Combines history, personal accounts, and theory to explain much of the field of theoretical and computational chemistry * Is the perfect introduction to the field

Principles of Engineering Physics 2 - Md Nazoor Khan 2017-03-06

This textbook is a follow-up to the volume *Principles of Engineering Physics 1* and aims for an introductory course in engineering physics. It provides a balance between theoretical concepts and their applications. Fundamental concepts of crystal structure including lattice directions and planes, atomic packing factor, diffraction by crystal, reciprocal lattices and intensity of diffracted beam are extensively discussed in the book. The book also covers topics related to superconductivity, optoelectronic devices, dielectric materials, semiconductors, electron theory of solids and energy bands in solids. The text is written in a logical and coherent manner for easy understanding by students. Emphasis has been given to an understanding of the basic concepts and their applications to a number of engineering problems. Each topic is discussed in detail both conceptually and mathematically, so that students will not face comprehension difficulties. Derivations and solved problems are provided in a step-by-step approach.

Plasticulture Engineering and Technology - Rohitashw Kumar 2022-05-06

The utilization of successful plasticulture engineering technology can ideally optimize crop yields and provide both economic and environmental benefits, such as reducing the need for water and

fertilizer. This book discusses the myriad important aspects of crop production that utilize plastic, such as micro-irrigation, water management, plastic mulch films, protected cultivation and low tunnels, crop covers, canal linings, silage bags, and more. It also examines the latest methods for vertical farming and technological aspects, such as smart agriculture using the internet of things (IoT). The current state of the art, as well as potential future uses, of plastics is discussed in addition to the benefits and limitations of plastics applications in agriculture generally. Features Illustrates application of plastic in protected cultivation, water management, aquaculture, and hi-tech horticulture using innovative technologies to enhance water use efficiency and crop productivity Presents precision farming for climate-resilient technologies Includes real-world examples to present practical insights of plastic engineering for climate change mitigation strategies. Plasticulture Engineering and Technology will serve as a useful resource for students, professionals, and researchers in agriculture and agricultural engineering, hydrology, hydraulics, water resources engineering, irrigation engineering, and environmental science.

Engineered Materials - S. Hampshire 1993-07-15

Volume is indexed by Thomson Reuters CPCI-S (WoS). This book gives an impressive demonstration of the diversity and richness of contemporary materials science.

Materials Science Compendium - Dr. A. K. Shrivastva

The study of science of materials has become in recent years an integral part of virtually all university courses in engineering. The subject of material science is an essential component of engineering education. It was with this in mind that present book was written. This book is primarily aimed at explaining the basic concepts of the science of materials. This is an elementary textbook on material science for graduate students of science and engineering. This book is suitable for students and engineers working in the material science field. A design engineer must have a sound knowledge of the basic concepts of material science. The presentation is concise, clear and lucid. The book covers the syllabus of undergraduate engineering courses of Indian Universities. A number of solved numerical problems have been included in the book to help the students in their learning and understanding process.

Shooting a Tiger - Vijaya Ramadas Mandala 2018-10-18

The figure of the white hunter sahib proudly standing over the carcass of a tiger with a gun in hand is one of the most powerful and enduring images of the empire. This book examines the colonial politics that allowed British imperialists to indulge in such grand posturing as the rulers and protectors of indigenous populations. This work studies the history of hunting and conservation in colonial India during the high imperial decades of the nineteenth and early twentieth centuries. At this time, not only did hunting serve as a metaphor for colonial rule signifying the virile sportsmanship of the British hunter, but it also enabled vital everyday governance through the embodiment of the figure of the officer-hunter-administrator. Using archival material and published sources, the author examines hunting and wildlife conservation from various social and ethnic perspectives, and also in different geographical contexts, extending our understanding of the link between shikar and governance.

Who's who in America - 2000

Student-staff Directory - University of Minnesota 2007

Recent Advancements in Geotechnical Engineering - B. Soundara 2021-10-15

Geotechnical engineering has become an important discipline of civil engineering due to its rapid advancements and environmental challenges. Special emphasis is placed on innovative materials in the fields of geotechnical engineering, pavement engineering, health monitoring of structures and sustainability. Keywords: Green Building Materials, Cement Based Materials, Concrete Applications, Photocatalytic Effect on Paver Blocks, Stabilization of Black Cotton Soil, Concrete Filled Steel Tube Columns, Cenosphere, Fly Ash Brick, Stone Columns, Reinforced Concrete Beams, Interlocking Masonry Units, Lightweight Filler Materials, Soil Stabilization Using Fibres, Friction Stir Welding of Aluminum and Magnesium.

Physical Metallurgy - Prof. Vijendra Singh 2005-01-01

Physical Metallurgy deals primarily with the products of process metallurgy and their physical, chemical and mechanical properties. This book explain basic principles of physical metallurgy including the practical applications. The book should prove to be an invaluable and easily accessible friend to understand the theory and practice of physical

metallurgy by mechanical, production, chemical and specially the metallurgical engineering students.

India and the British Empire - Douglas M. Peers 2017-02-09

South Asian History has enjoyed a remarkable renaissance over the past thirty years. Its historians are not only producing new ways of thinking about the imperial impact and legacy on South Asia, but also helping to reshape the study of imperial history in general. The essays in this collection address a number of these important developments, delineating not only the complicated interplay between imperial rulers and their subjects in India, but also illuminating the economic, political, environmental, social, cultural, ideological, and intellectual contexts which informed, and were in turn informed by, these interactions. Particular attention is paid to a cluster of binary oppositions that have hitherto framed South Asian history, namely colonizer/colonized, imperialism/nationalism, and modernity/tradition, and how new analytical frameworks are emerging which enable us to think beyond the constraints imposed by these binaries. Closer attention to regional dynamics as well as to wider global forces has enriched our understanding of the history of South Asia within a wider imperial matrix. Previous impressions of all-powerful imperialism, with the capacity to reshape all before it, for good or ill, are rejected in favour of a much more nuanced image of imperialism in India that acknowledges the impact as well as the intentions of colonialism, but within a much more complicated historical landscape where other processes are at work.

Fungi Bio-prospects in Sustainable Agriculture, Environment and Nano-technology - Vijay Kumar Sharma 2020-10-24

Fungi Bio-prospects in Sustainable Agriculture, Environment and Nanotechnology, Volume Two: Extremophilic Fungi and Myco-mediated Environmental Management explores varied aspects of fungal biology and their relevance in microbiology and agriculture, thus allowing for better insights on basic and advanced biotechnological application in human welfare and sustainable agriculture. Chapters throw light on different sectors of fungi, including fungi in extreme circumstances, bioremediation, complex and toxic effluents, and mycoremediation. The book was designed to explore the possibility of huge fungal diversity for present and future generation in different sectors of human life. Volume Two focuses on extremophilic fungi and myco-mediated environmental management. Summarizes various aspects of fungi in the field of microbiology, sustainable agriculture, nano-technology and environment Describes the molecular approaches and gene expression of fungi Provides a deeper understanding of fungi that could be articulated in various fields

Artificial Intelligence and Evolutionary Computations in Engineering Systems - Subhransu Sekhar Dash 2018-03-19

The book is a collection of high-quality peer-reviewed research papers presented in the International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES 2017). The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academia and industry have presented their original work and ideas, information, techniques and applications in the field of communication, computing and power technologies.

Advances in Biomaterials for Biomedical Applications - Anuj Tripathi 2017-01-24

This book highlights recent advances in the field of biomaterials design and the state of the art in biomaterials applications for biomedicine. Addressing key aspects of biomaterials, the book explores technological advances at multi-scale levels (macro, micro, and nano), which are used in applications related to cell and tissue regeneration. The book also discusses the future scope of bio-integrated systems. The contents are supplemented by illustrated examples, and schematics of molecular and cellular interactions with biomaterials/scaffolds are included to promote a better understanding of the complex biological mechanisms involved in material-to-biomolecule interactions. The book also covers factors that govern cell growth, differentiation, and regeneration in connection with the treatment and recovery of native biological systems. Tissue engineering, drug screening and delivery, and electrolyte complexes for biomedical applications are also covered in detail. This book offers a comprehensive reference guide for multi-disciplinary communities working in the area of biomaterials, and will benefit researchers and graduate students alike.

Cloud IoT Systems for Smart Agricultural Engineering - Saravanan Krishnan 2022-02-14

Agriculture plays a vital role in a country's growth. Modern-day technologies drive every domain toward smart systems. The use of traditional agricultural procedures to satisfy modern-day requirements is a challenging task. Cloud IoT Systems for Smart Agricultural Engineering provides substantial coverage of various challenges of the agriculture domain through modern technologies such as the Internet of Things (IoT), cloud computing, and many more. This book offers various state-of-the-art procedures to be deployed in a wide range of agricultural activities. The concepts are discussed with the necessary implementations and clear examples. Necessary illustrations are depicted in the chapters to ensure the effective delivery of the proposed concepts. It presents the rapid advancement of the technologies in the existing agricultural model by applying the cloud IoT techniques. A wide variety of novel architectural solutions are discussed in various chapters of this book. This book provides comprehensive coverage of the most essential topics, including: New approaches on urban and vertical farming Smart crop management for Indian farmers Smart livestock management Precision agriculture using geographical information systems Machine learning techniques combined with IoT for smart agriculture Effective use of drones in smart agriculture This book provides solutions for the diverse domain of problems in agricultural engineering. It can be used at the basic and intermediary levels for agricultural science and engineering graduate students, researchers, and practitioners.

Advances in Manufacturing Processes - K. S. Vijay Sekar 2019

This book comprises selected proceedings of the International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM 2018). It discusses innovative manufacturing processes, such as rapid prototyping, nontraditional machining, advanced computer numerical control (CNC) machining, and advanced metal forming. The book particularly focuses on finite element simulation and optimization, which aid in reducing experimental costs and time. This book is a valuable resource for students, researchers, and professionals alike.