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Singularities are pervasive throughout nature and this book is one of the first to combine all aspects of singular optics and to give a detailed view of the subject. Singularities in Optical Physics and Engineering give a thorough introduction to singularities and their development and goes on to explain in detail important topics such as the types of singularities, their properties, detection and application and the emerging research trends that are still developing. The book concentrates mostly on phase singularities in a comprehensive development to allow a greater understanding of singularities throughout the chapters. It also discusses polarization singularities in its final chapter giving an in-depth description of this subject. With new advances being generated continuously, this book will cover a vibrant field of optics and will give an essential foundation to any students and researchers interested in singular optics. Part of IOP Series in Advances in Optics, Photonics and Optoelectronics

Incremental Sheet Forming (ISF) exempts use of dies and reduces cost for manufacturing complex parts. Sheet metal forming is used for producing high-quality components in automotive, aerospace, and medical industries. This book covers the benefits of this new technology, including the process parameters along with various techniques. Each variant of this novel process is discussed along with the requirements of machinery and hardware. In addition, appropriate guidelines are also suggested regarding the relationship between process parameters and aspects of ISF process in order to ensure the applicability of the process on the industrial scale. This book will be a useful asset for researchers, engineers in manufacturing industries, and postgraduate level courses.

In the automotive industry, the need to reduce vehicle weight has given rise to extensive research efforts to develop aluminum and magnesium alloys for structural car body parts. In aerospace, the move toward composite airframe structures urged an increased use of formable titanium alloys. In steel research, there are ongoing efforts to design novel damage-controlled forming processes for a new generation of efficient and reliable lightweight steel components.

All these materials, and more, constitute today's research mission for lightweight structures. They provide a fertile materials science research field aiming to achieve a better understanding of the interplay between industrial processing, microstructure development, and the resulting material properties. *Advancements in the Processing, Characterization, and Application of Lightweight Materials* provides the recent advancements in the lightweight materials processing, manufacturing, and characterization. This book identifies the need for modern tools and techniques for designing lightweight materials and addresses multidisciplinary approaches for applying their use. Covering topics such as numerical optimization, fatigue characterization, and process evaluation, this text is an essential resource for materials engineers, manufacturers, practitioners, engineers, academicians, chief research officers, researchers, students, and vice presidents of research in government, industry, and academia.

This book addresses material growth, device fabrication, device application, and commercialization of energy-efficient white light-emitting diodes (LEDs), laser diodes, and power electronics devices. It begins with an overview on basics of semiconductor materials, physics, growth and characterization techniques, followed by detailed discussion of advantages, drawbacks, design issues, processing, applications, and key challenges for state of the art GaN-based devices. It includes state of the art material synthesis techniques with an overview on growth technologies for emerging bulk or free standing GaN and AlN substrates and their applications in electronics, detection, sensing, optoelectronics and photonics. Wengang (Wayne) Bi is Distinguished Chair Professor and Associate Dean in the College of Information and Electrical Engineering at Hebei University of Technology in Tianjin, China. Hao-chung (Henry) Kuo is Distinguished Professor and Associate Director of the Photonics Center at National Chiao-Tung University, Hsin-Tsu, Taiwan, China. Pei-Cheng Ku is an associate professor in the Department of Electrical Engineering & Computer Science at the University of Michigan, Ann Arbor, USA. Bo Shen is the Cheung Kong Professor at Peking University in China.

This book offers the latest research and new perspectives on Interactive Collaborative Learning and Engineering Pedagogy. We are currently witnessing a significant transformation in education, and in order to face today's real-world challenges, higher education has to find innovative ways to quickly respond to these new needs. Addressing these aspects was the chief aim of the 21st International Conference on Interactive Collaborative Learning (ICL2018), which was held on Kos Island, Greece from September 25 to 28, 2018. Since being founded in 1998, the conference has been devoted to new approaches in learning, with a special focus on collaborative learning. Today the ICL conferences offer a forum for exchanging information on relevant trends and research results, as well as sharing practical experiences in learning and engineering pedagogy. This book includes papers in the fields of: * New Learning Models and Applications * Pilot Projects: Applications * Project-based Learning * Real-world Experiences * Remote and Virtual Laboratories * Research in Engineering Pedagogy * Technical Teacher Training It will benefit a broad readership, including policymakers, educators, researchers in pedagogy and learning theory, school teachers, the learning industry, further education lecturers, etc.

Oxide Free Nanomaterials for Energy Storage and Conversion Applications covers in depth topics on non-oxide nanomaterials involving transition metal nitrides, carbides, selenides, phosphides, oxynitrides based electrodes, & other non-oxide groups. The current application of nanostructured nonoxides involves their major usage in energy storage and conversion devices variety of applications such as supercapacitor, batteries, dye-sensitized solar cells and hydrogen production applications. The current application of energy storage devices involves their usage of nanostructured non-oxide materials with

improved energy and power densities. In this book readers will discover the major advancements in this field during the past decades. The various techniques used to prepare environmentally friendly nanostructured non-oxide materials, their structural and morphological characterization, their improved mechanical and material properties, and finally, current applications and future impacts of these materials are discussed. While planning and fabricating non-oxide materials, the readers must be concern over that they ought to be abundant, cost-efficient and environment-friendly for clean innovation and conceivably be of use in an expansive choice of utilization. The book gives detailed literature on the development of nanostructured non-oxides, their use as energy related devices and their present trend in the industry and market. This book also emphasis on the latest advancement about application of these noble non-oxide based materials for photocatalytic water-splitting. Recent progress on various kinds of both photocatalytic and electrocatalytic nanomaterials is reviewed, and essential aspects which govern catalytic behaviours and the corresponding stability are discussed. The book will give an updated literature on the synthesis, potential applications and future of nanostructured non-oxides in energy related applications. This book is highly useful to researchers working in the field with diversified backgrounds are expected to making the chapter truly interdisciplinary in nature. The contents in the book will emphasize the recent advances in interdisciplinary research on processing, morphology, structure and properties of nanostructured non-materials and their applications in energy applications such as supercapacitors, batteries, solar cells, electrochemical water splitting and other energy applications. Thus, nanotechnology researchers, scientists and experts need to have update of the growing trends and applications in the field of science and technology. Further, the postgraduate students, scientists, researchers and technologists are need to buy this book. Offers a comprehensive coverage of the nanostructured non-oxide materials and their potential energy applications Examines the properties of nanostructured non-oxide materials that make them so adaptable Explores the mechanisms by which nanoparticles interact with each other, showing how these can be used for industrial applications Shows the how nanostructured non-oxide materials are used in a wide range of industry sectors, containing energy production and storage

The aim of this book is to contain review articles describing the latest theoretical and experimental developments in the field of cold atoms and molecules. Our hope is that this series will promote research by both highlighting recent breakthroughs and by outlining some of the most promising research directions in the field. Contents: Strongly Interacting Two-Dimensional Fermi Gases (Jesper Levinsen and Meera M Parish) Few-Body Physics of Ultracold Atoms and Molecules with Long-Range Interactions (Yujun Wang, Paul Julienne and Chris H Greene) Spin-Orbit Coupling in Optical Lattices (Shizhong Zhang, William S Cole, Arun Paramekanti and Nandini Trivedi) Microscopy of Many-Body States in Optical Lattices (Christian Gross and Immanuel Bloch) Spin-Orbit-Coupled Bose-Einstein Condensates (Yun Li and Giovanni I Martone and Sandro Stringari) Readership: Research scientists including graduate students and upper level undergraduate students. Keywords: Atomic Physics; Molecule Physics; Optical Physics; Low Temperature; Ultracold

Electrochemical Impedance Spectroscopy is a compendium of contributions from experts in the field of electrochemical impedance spectroscopy (EIS). This compilation of investigations and reviews addresses the groundbreaking applications of EIS in different fields. An array of exploitations are revealed throughout this book such as the use of EIS in monitoring and controlling of corrosion, in medicine where accurate information on fluid distribution is needed as well as environmental applications in food, water, and drug analyses. Competency of EIS as an approach compared to the traditional electrochemical techniques is assessed in almost every application. This book, therefore, is a valuable reference for students, researchers, and anyone interested in electrochemical impedance spectroscopy.

Edited by experts, one of whom developed the technology, Electrolytic In-Process Dressing (ELID) Technologies: Fundamentals and Applications provides

an overview of ELID processes with correlations between the main parameters, describes ELID operations, and illustrates the concepts with case studies. The book's authoritative coverage of major concepts and applications of this emerging technology makes it a definitive reference. The book delineates the fundamentals, the chemistry and physics, and the hardware required by the process, then explores the application of ELID to different configurations of grinding. It discusses ELID grinding methods, lapping/grinding process, honing, and an original method of ELID grinding of free forms surfaces using an original design. The book also provides case studies in areas such as: Nano ultra-precision ELID and the latest developments in ELID nano-grinding Glass ceramic mirrors, small lens, and large scale optics New concept of micro-workshop, where all the machines tools and measurement devices are table-top machines with high accuracy Successful applications of ELID technology in the optics, semiconductor, mold and die, and micro-tools industries Surface modifications as a future method for obtaining complex modifications of surfaces by using ELID in combination with other methods Arguably the first comprehensive review of this emerging technology, this book combines information drawn from experts and the literature to provide a practical reference for the field. The editors have put together a resource that anticipates many of the questions that will arise from the investigation of ELID methods and applications.

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