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A one-stop resource for researchers and developers alike, this book covers a plethora of nanocomposite properties and their enhancement mechanisms. With contributors from industry as well as academia, each chapter elucidates in detail the mechanisms to achieve a certain functionality of the polymer nanocomposite, such as improved biodegradability, increased chemical resistance and tribological performance. Special emphasis is laid on the interdependence of the factors that affect the

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nanocomposite properties such that readers obtain the information necessary to synthesize the polymer materials according to the requirements of their respective applications.

Modal analysis is a discipline that has developed considerably during the last 30 years. Theoretical and Experimental Modal Analysis is a new book on modal analysis aimed at a wide range of readers, from academics such as post-graduate students and researchers, to engineers in many industries who use modal analysis tools and need to improve their

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knowledge of the subject. Divided into eight chapters, the book ranges from the basics of vibration theory and signal processing to more advanced topics, including identification techniques, substructural coupling, structural modification, updating of finite element models and nonlinear modal analysis. There is also an entire chapter dedicated to vibration testing techniques. It has been written with a diversity of potential readers in mind, so that all will be able to follow the book easily and assimilate the concepts involved.

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This book presents the design and manufacturing of microsystems as well as necessary key technologies developed within the Collaborative Research Center 516. The research efforts of this collaboration are focused on active micro systems which are based on the electromagnetic actuator principle. The travel of the investigated actuator systems is on the order of several millimeters. The total construction size of the actuator is on the range of several centimeters whereas essential structures being several micrometers.

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The methods and the production technologies that are investigated on the basis of various research models incorporate the fundamental process chains of microsystems.

This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS 2019), held at the National Institute of Technology, Rourkela, India. The book discusses latest methods and advanced tools from different areas of design and manufacturing technology. The main topics

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covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents of this book are useful for academics as well as professionals working in industrial design, mechatronics, robotics, and automation.

Composites materials have aroused a great interest over the last few decades. Several applications of fibrous composites, functionally graded materials, laminated composites, nano-structured reinforcements, morphing structures, can be found in

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many engineering fields, such as aerospace, mechanical, naval and civil engineering. The necessity of lightweight structures, smart and adaptive systems, high-level strength, have led both the academic research and the manufacturing development to a recurring employment of these materials. Many journal papers and technical notes have been published extensively over the last seventy years in international scientific journals of different engineering fields. For this reason, the establishment of this second edition of *Mechanics of Composites*

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International Conference has appeared appropriate to continue what has been begun during the first edition occurred in 2014 at Stony Brook University (USA). MECHCOMP wants to be an occasion for many researchers from each part of the globe to meet and discuss about the recent advancements regarding the use of composite structures. As a proof of this event, which has taken place in Porto (Portugal), selected plenary and key-note lectures have been collected in the present book.

This Symposium provided an international forum for

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exchange of ideas and creation of knowledge in recent advances on Multi-Functional Material Structures and Systems. Novel theories, mathematical models, analyses, and application of computational and experimental methods are topics treated. In particular, this work reflects the state of the art in mathematical modeling, computational methods, new experimental methods, new and advanced engineering applications in emerging technologies advanced sensors, structural health monitoring, MEMS, and advanced control systems.

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This book presents selected research papers of the AIMTDR 2014 conference on application of laser technology for various manufacturing processes such as cutting, forming, welding, sintering, cladding and micro-machining. State-of-the-art of these technologies in terms of numerical modeling, experimental studies and industrial case studies are presented. This book will enrich the knowledge of budding technocrats, graduate students of mechanical and manufacturing engineering, and researchers working in this area.

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This book focuses on the recent advances in the field of orthopaedic biomaterials, with a particular emphasis on their design and fabrication. Biomimetic materials, having similar properties and functions to that of the natural tissue, are becoming a popular choice for making customized orthopaedic implants and bone scaffolds. The acceptability of these materials in the human body depends on the right balance between their mechanical and biological properties. This book provides a comprehensive overview of the state-of-the-art research in this rapidly

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evolving field. The chapters cover different aspects of multi-functional biomaterials design, and cutting-edge methods for the synthesis and processing of these materials. Advanced manufacturing techniques, like additive manufacturing, used for developing new biomimetic materials are highlighted in the book. This book is a valuable reference for students and researchers interested in biomaterials for orthopaedic applications.

This book presents selected contributions to the 16th International Conference on Global Research and

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Education Inter-Academia
2017 hosted by Alexandru
Ioan Cuza University of
Iași, Romania from 25 to 28
September 2017. It is the
third volume in the series,
following the editions from
2015 and 2016. Fundamental
and applied research in
natural sciences have led to
crucial developments in the
ongoing 4th global
industrial revolution, in
the course of which
information technology has
become deeply embedded in
industrial management,
research and innovation -
and just as deeply in
education and everyday life.
Materials science and
nanotechnology, plasma and

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Analysis of solid state physics, photonics, electrical and electronic engineering, robotics and metrology, signal processing, e-learning, intelligent and soft computing have long since been central research priorities for the Inter-Academia Community (I-AC) – a body comprising 14 universities and research institutes from Japan and Central/East-European countries that agreed, in 2002, to coordinate their research and education programs so as to better address today's challenges. The book is intended for use in academic, government, and industrial R&D departments

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as a reference tool in research and technology education. The 42 peer-reviewed papers were written by more than 119 leading scientists from 14 countries, most of them affiliated to the I-AC.

These proceedings exchange ideas and knowledge among engineers, designers and managers on how to support real-world value chains by developing additive manufactured series products. The papers from the conference show a holistic, multidisciplinary view.

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