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Proceedings of Mechanical Engineering Research Day 2018 [Centre for Advanced Research on Energy](#) This e-book is a compilation of papers presented at the 5th Mechanical Engineering Research Day (MERD'18) - Kampus Teknologi UTeM, Melaka, Malaysia on 03 May 2018. **Senior Design Projects in Mechanical Engineering A Guide Book for Teaching and Learning** [Springer Nature](#) **Recent Advances in Mechanical Engineering Select Proceedings of ICRAMERD 2021** [Springer](#) This book presents select proceedings of the International Conference on Recent Advances in Mechanical Engineering Research and Development (ICRAMERD 21). It covers the latest research trends in various branches of mechanical engineering. The topics covered include materials engineering, industrial system engineering, manufacturing systems engineering, automotive engineering, thermal systems, smart composite materials, manufacturing processes, industrial automation, and energy system. The book will be a valuable reference for beginners, researchers, engineers, and industry professionals working in the various fields of mechanical engineering. **Proceedings of Mechanical Engineering Research Day 2022** [UTeM Press](#) This open access e-proceeding is a compilation of 134 articles presented at the 8th Mechanical Engineering Research Day (MERD'22) - Kampus Teknologi UTeM, Melaka, Malaysia on 13 July 2022. **Proceedings of Mechanical Engineering Research Day 2020** [Centre for Advanced Research on Energy](#) This e-book is a compilation of 170 articles presented at the 7th Mechanical Engineering Research Day (MERD'20) - Kampus Teknologi UTeM (virtual), Melaka, Malaysia on 16 December 2020. **Proceedings of Mechanical Engineering Research Day 2019** [Centre for Advanced Research on Energy](#) This e-book is a compilation of papers presented at the 6th Mechanical Engineering Research Day (MERD'19) - Kampus Teknologi UTeM, Melaka, Malaysia on 31 July 2019. **Proceedings of Mechanical Engineering Research Day 2015** [Centre for Advanced Research on Energy](#) This e-book is a compilation of papers presented at the Mechanical Engineering Research Day 2015 (MERD'15) - Melaka, Malaysia on 31 March 2015. **Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering** [IGI Global](#) Production, new materials development, and mechanics are the central subjects of modern industry and advanced science. With a very broad reach across several different disciplines, selecting the most forward-thinking research to review can be a hefty task, especially for study in niche applications that receive little coverage. For those subjects, collecting the research available is of utmost importance. The Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering is an essential reference source that examines emerging obstacles in these fields of engineering and the methods and tools used to find solutions. Featuring coverage of a broad range of topics including fabricating procedures, automated control, and material selection, this book is ideally designed for academics; tribology and materials researchers; mechanical, physics, and materials engineers; professionals in related industries; scientists; and students. **Recent Advances in Mechanical Engineering Select Proceedings of ICRAMERD 2021** [Springer Nature](#) **Recent Advances in Mechanical Engineering Select Proceedings of ITME 2019** [Springer Nature](#) This book presents selected peer-reviewed papers presented at the International Conference on Innovative Technologies in Mechanical Engineering (ITME) 2019. The book discusses a wide range of topics in mechanical engineering such as mechanical systems, materials engineering, micro-machining, renewable energy, systems engineering, thermal engineering, additive manufacturing, automotive technologies, rapid prototyping, computer aided design and manufacturing. This book, in addition to assisting students and researchers working in various areas of mechanical engineering, can also be useful to researchers and professionals working in various allied and interdisciplinary fields. **Proceedings of the International Conference on Research and Innovations in Mechanical Engineering ICRIME-2013** [Springer](#) This book comprises the proceedings of International Conference on Research and Innovations in Mechanical Engineering (ICRIME 2013) organized by Guru Nanak Dev Engineering College, Ludhiana with support from AICTE, TEQIP, DST and PTU, Jalandhar. This international conference served as a premier forum for communication of new advances and research results in the fields of mechanical engineering. The proceedings reflect the conference's emphasis on strong methodological approaches and focus on applications within the domain of mechanical engineering. The contents of this volume aim to highlight new theoretical and experimental findings in the fields of mechanical engineering and closely related fields, including interdisciplinary fields such as robotics and mechatronics. **Research and Development in Mechanical Engineering** [Trans Tech Publications Ltd](#) **Special Issue of International Conference entitled ??Research and Development in Mechanical Industry?? (RaDMI-2014) of periodical ??Applied**

Mechanics and Materials?? provides insight on modern approaches and methods presented by papers with latest experiences and development activities in investigation, production, design and use of new materials in field of Mechanical Sciences. This publication is realized by SaTCIP Publisher Ltd., Vrnja?ka Banja, Serbia and High Technical Mechanical School of Professional Studies, Trstenik, Serbia and is a result of 14 years of International Conference RaDMI existence which continuously gathers researchers and scientists towards advancements of mechanical engineering. This issue contains selection of scientific articles that present knowledge from researchers and scientists from several prominent universities and research institutes from all of the parts of the region and the World. **Axiomatic, Enriched and Motivic Homotopy Theory Proceedings of the NATO Advanced Study Institute on Axiomatic, Enriched and Motivic Homotopy Theory Cambridge, United Kingdom 9-20 September 2002** [Springer Science & Business Media](#) The NATO Advanced Study Institute "Axiomatic, enriched and rna tivic homotopy theory" took place at the Isaac Newton Institute of Mathematical Sciences, Cambridge, England during 9-20 September 2002. The Directors were J.P.C.Greenlees and I.Zhukov; the other or ganizers were P.G.Goerss, F.Morel, J.F.Jardine and V.P.Snaith. The title describes the content well, and both the event and the contents of the present volume reflect recent remarkable successes in model categor ies, structured ring spectra and homotopy theory of algebraic geometry. The ASI took the form of a series of 15 minicourses and a few extra lectures, and was designed to provide background, and to bring the par ticipants up to date with developments. The present volume is based on a number of the lectures given during the workshop. The ASI was the opening workshop of the four month programme "New Contexts for Stable Homotopy Theory" which explored several themes in greater depth. I am grateful to the Isaac Newton Institute for providing such an ideal venue, the NATO Science Committee for their funding, and to all the speakers at the conference, whether or not they were able to contribute to the present volume. All contributions were refereed, and I thank the authors and referees for their efforts to fit in with the tight schedule. Finally, I would like to thank my coorganizers and all the staff at the Institute for making the ASI run so smoothly. **J.P.C.GREENLEES. Advances in Systems Engineering Select Proceedings of NSC 2019** [Springer Nature](#) This book comprises select proceedings of the 43rd National Systems Conference on Innovative and Emerging Trends in Engineering Systems (NSC 2019) held at the Indian Institute of Technology, Roorkee, India. The contents cover latest research in the highly multidisciplinary field of systems engineering, and discusses its various aspects like systems design, dynamics, analysis, modeling and simulation. Some of the topics covered include computing systems, consciousness systems, electrical systems, energy systems, manufacturing systems, mechanical systems, literary systems, social systems, and quantum and nano systems. Given the scope of the contents, this book will be useful for researchers and professionals from diverse engineering and management background. **Recent Advances in Mechanical Engineering Select Proceedings of NCAME 2019** [Springer Nature](#) This book presents the selected peer-reviewed papers from the National Conference on Advances in Mechanical Engineering (NCAME 2019), held at the National Institute of Technology Delhi, India. The book covers different areas of mechanical engineering from design engineering to manufacturing engineering. A wide range of topics are discussed such as CAD/CAM, additive manufacturing, fluid dynamics, materials science and engineering, simulation and modeling, finite element analysis, applied mechanics to name a few. The contents provide an overview of the state-of-the-art in mechanical engineering research in the country. Given the scope of the topics covered, the book will be of interest for students, researchers and professionals working in mechanical engineering. **Current Advances in Mechanical Engineering Select Proceedings of ICRAMERD 2020** [Springer Nature](#) This book presents select proceedings of the International Conference on Recent Advances in Mechanical Engineering Research and Development (ICRAMERD 2020). The contents focus on latest research and current problems in various branches of mechanical engineering. Some of the topics discussed here include fracture and failure analysis, fuels and alternative fuels, combustion and IC engines, advanced manufacturing technologies, powder metallurgy and rapid prototyping, industrial engineering and automation, supply chain management, design of mechanical systems, vibrations and control engineering, automobile engineering, fluid mechanics and machines, heat transfer, composite materials, micro and nano-engineering for energy storage and conversion, and modeling and simulations. The wide range of topics presented in this book can make it useful for beginners, researchers as well as professionals in mechanical engineering. **Mechanics of Advanced Materials Analysis of Properties and Performance** [Springer](#) The book presents interesting examples of recent developments in this area. Among the studied materials are bulk metallic glasses, metamaterials, special composites, piezoelectric smart structures, nonwovens, etc. The last decades have seen a large extension of types of materials employed in various applications. In many cases these materials demonstrate mechanical properties and performance that vary significantly from those of their traditional counterparts. Such uniqueness is sought - or even specially manufactured - to meet increased requirements on modern components and structures related to their specific use. As a result, mechanical behaviors of these materials under different loading and environmental conditions are outside the boundaries of traditional mechanics of materials, presupposing development of new characterization techniques, theoretical descriptions and numerical tools. The book presents interesting examples of recent developments in this area. Among the studied materials are bulk metallic glasses, metamaterials, special composites, piezoelectric smart structures, nonwovens, etc. **Writing for Science and Engineering Papers, Presentations and Reports** [Newnes](#) **Resumen: Are you a post-graduate student in Engineering, Science or Technology who needs to know how to: Prepare abstracts, theses and journal papers Present your work orally Present a progress report to your funding body Would you like some guidance aimed specifically at your subject area? ... This is the book for you; a practical guide to all aspects of post-graduate documentation for Engineering, Science and Technology students, which will prove indispensable to readers. Writing for Science and Engineering will prove invaluable in all areas of research and writing due its clear, concise style. The practical advice contained within the pages alongside numerous examples to**

aid learning will make the preparation of documentation much easier for all students. Abstracts of Dissertations, Theses and Research Papers Submitted by Candidates for Degrees

Soft Computing Techniques and Applications in Mechanical Engineering IGI Global The evolution of soft computing applications has offered a multitude of methodologies and techniques that are useful in facilitating new ways to address practical and real scenarios in a variety of fields. In particular, these concepts have created significant developments in the engineering field. **Soft Computing Techniques and Applications in Mechanical Engineering** is a pivotal reference source for the latest research findings on a comprehensive range of soft computing techniques applied in various fields of mechanical engineering. Featuring extensive coverage on relevant areas such as thermodynamics, fuzzy computing, and computational intelligence, this publication is an ideal resource for students, engineers, research scientists, and academicians involved in soft computing techniques and applications in mechanical engineering areas.

Mechanical Engineering, Automation and Control Systems Mechanical Engineers' Handbook, Volume 4 Energy and Power John Wiley & Sons The engineer's ready reference for mechanical power and heat **Mechanical Engineer's Handbook** provides the most comprehensive coverage of the entire discipline, with a focus on explanation and analysis. Packaged as a modular approach, these books are designed to be used either individually or as a set, providing engineers with a thorough, detailed, ready reference on topics that may fall outside their scope of expertise. Each book provides discussion and examples as opposed to straight data and calculations, giving readers the immediate background they need while pointing them toward more in-depth information as necessary.

Volume 4: Energy and Power covers the essentials of fluids, thermodynamics, entropy, and heat, with chapters dedicated to individual applications such as air heating, cryogenic engineering, indoor environmental control, and more. Readers will find detailed guidance toward fuel sources and their technologies, as well as a general overview of the mechanics of combustion. No single engineer can be a specialist in all areas that they are called on to work in the diverse industries and job functions they occupy. This book gives them a resource for finding the information they need, with a focus on topics related to the productions, transmission, and use of mechanical power and heat. Understand the nature of energy and its proper measurement and analysis Learn how the mechanics of energy apply to furnaces, refrigeration, thermal systems, and more Examine the and pros and cons of petroleum, coal, biofuel, solar, wind, and geothermal power Review the mechanical parts that generate, transmit, and store different types of power, and the applicable guidelines Engineers must frequently refer to data tables, standards, and other list-type references, but this book is different; instead of just providing the answer, it explains why the answer is what it is. Engineers will appreciate this approach, and come to find **Volume 4: Energy and Power** an invaluable reference.

Mechanical Engineers' Handbook, Volume 3 Manufacturing and Management John Wiley & Sons Full coverage of manufacturing and management in mechanical engineering **Mechanical Engineers' Handbook, Fourth Edition** provides a quick guide to specialized areas that engineers may encounter in their work, providing access to the basics of each and pointing toward trusted resources for further reading, if needed. The book's accessible information offers discussions, examples, and analyses of the topics covered, rather than the straight data, formulas, and calculations found in other handbooks. No single engineer can be a specialist in all areas that they are called upon to work in. It's a discipline that covers a broad range of topics that are used as the building blocks for specialized areas, including aerospace, chemical, materials, nuclear, electrical, and general engineering. This third volume of **Mechanical Engineers' Handbook** covers **Manufacturing & Management**, and provides accessible and in-depth access to the topics encountered regularly in the discipline: environmentally benign manufacturing, production planning, production processes and equipment, manufacturing systems evaluation, coatings and surface engineering, physical vapor deposition, mechanical fasteners, seal technology, statistical quality control, nondestructive inspection, intelligent control of material handling systems, and much more. Presents the most comprehensive coverage of the entire discipline of **Mechanical Engineering** Focuses on the explanation and analysis of the concepts presented as opposed to a straight listing of formulas and data found in other handbooks Offers the option of being purchased as a four-book set or as single books Comes in a subscription format through the Wiley Online Library and in electronic and other custom formats Engineers at all levels of industry, government, or private consulting practice will find **Mechanical Engineers' Handbook, Volume 3** an "off-the-shelf" reference they'll turn to again and again.

Mechanical Engineers' Handbook, Design, Instrumentation, and Controls John Wiley & Sons The engineer's ready reference for mechanical power and heat **Mechanical Engineer's Handbook** provides the most comprehensive coverage of the entire discipline, with a focus on explanation and analysis. Packaged as a modular approach, these books are designed to be used either individually or as a set, providing engineers with a thorough, detailed, ready reference on topics that may fall outside their scope of expertise. Each book provides discussion and examples as opposed to straight data and calculations, giving readers the immediate background they need while pointing them toward more in-depth information as necessary. **Volume 4: Energy and Power** covers the essentials of fluids, thermodynamics, entropy, and heat, with chapters dedicated to individual applications such as air heating, cryogenic engineering, indoor environmental control, and more. Readers will find detailed guidance toward fuel sources and their technologies, as well as a general overview of the mechanics of combustion. No single engineer can be a specialist in all areas that they are called on to work in the diverse industries and job functions they occupy. This book gives them a resource for finding the information they need, with a focus on topics related to the productions, transmission, and use of mechanical power and heat. Understand the nature of energy and its proper measurement and analysis Learn how the mechanics of energy apply to furnaces, refrigeration, thermal systems, and more Examine the and pros and cons of petroleum, coal, biofuel, solar, wind, and geothermal power Review the mechanical parts that generate, transmit, and store different types of power, and the applicable guidelines Engineers must frequently refer to data tables, standards, and other list-type references, but this book is different; instead of just providing the answer, it explains why

the answer is what it is. Engineers will appreciate this approach, and come to find Volume 4: Energy and Power an invaluable reference. **Advances in Applied Mechanical Engineering Select Proceedings of ICAMER 2019** [Springer Nature](#) This book presents select peer reviewed proceedings of the International Conference on Applied Mechanical Engineering Research (ICAMER 2019). The book examines various areas of mechanical engineering namely design, thermal, materials, manufacturing and industrial engineering covering topics like FEA, optimization, vibrations, condition monitoring, tribology, CFD, IC engines, turbo-machines, automobiles, manufacturing processes, machining, CAM, additive manufacturing, modelling and simulation of manufacturing processing, optimization of manufacturing processing, supply chain management, and operations management. In addition, recent studies on composite materials, materials characterization, fracture and fatigue, advanced materials, energy storage, green building, phase change materials and structural change monitoring are also covered. Given the contents, this book will be useful for students, researchers and professionals working in mechanical engineering and allied fields. **Advances in Applied Mechanics** [Academic Press](#) **Advances in Applied Mechanics** draws together recent significant advances in various topics in applied mechanics. Published since 1948, **Advances in Applied Mechanics** aims to provide authoritative review articles on topics in the mechanical sciences, primarily of interest to scientists and engineers working in the various branches of mechanics, but also of interest to the many who use the results of investigations in mechanics in various application areas, such as aerospace, chemical, civil, environmental, mechanical and nuclear engineering. Covers all fields of the mechanical sciences Highlights classical and modern areas of mechanics that are ready for review Provides comprehensive coverage of the field in question **Essays on the History of Mechanical Engineering** [Springer](#) This book treats several subjects from the History of Mechanism and Machine Science, and also contains an illustrative presentation of the Museum of Engines and Mechanisms of the University of Palermo, Italy, which houses a collection of various pieces of machinery from the last 150 years. The various sections deal with some eminent scientists of the past, with the history of industrial installations, machinery and transport, with the human inventiveness for mechanical and scientific devices, and with robots and human-driven automata. All chapters have been written by experts in their fields. The volume shows a wide-ranging panorama on the historical progress of scientific and technical knowledge in the past centuries. It will stimulate new research and ideas for those involved in the history of Science and Technology. **Engineering Decisions and Scientific Research in Aerospace, Robotics, Biomechanics, Mechanical Engineering and Manufacturing** The main objective of the conference is to bring together leading researchers, engineers and scientists in the fields of interest from Romania and from around the world in order to: provide a platform for researchers, engineers, academicians as well as industrial professionals to present their latest experiences and developments activities in the field of Smart Systems and their Applications in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics, Neurorehabilitation and Human motricities; provide opportunities for attendees to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration. **Design and Optimization of Mechanical Engineering Products** [IGI Global](#) The success of any product sold to consumers is based, largely, on the longevity of the product. This concept can be extended by various methods of improvement including optimizing the initial creation structures which can lead to a more desired product and extend the product's time on the market. **Design and Optimization of Mechanical Engineering Products** is an essential research source that explores the structure and processes used in creating goods and the methods by which these goods are improved in order to continue competitiveness in the consumer market. Featuring coverage on a broad range of topics including modeling and simulation, new product development, and multi-criteria decision making, this publication is targeted toward students, practitioners, researchers, engineers, and academicians. **Integrated Computer Technologies in Mechanical Engineering - 2020 Synergetic Engineering** [Springer Nature](#) This book addresses conference topics such as information technology in the design and manufacture of engines; information technology in the creation of rocket space systems; aerospace engineering; transport systems and logistics; big data and data science; nano-modeling; artificial intelligence and smart systems; networks and communication; cyber-physical systems and IoE; and software engineering and IT infrastructure. The International Scientific and Technical Conference "Integrated Computer Technologies in Mechanical Engineering" - Synergetic Engineering (ICTM) was formed to bring together outstanding researchers and practitioners in the field of information technology, and whose work involves the design and manufacture of engines, creation of rocket space systems, and aerospace engineering, from all over the world to share their experiences and expertise. It was established by the National Aerospace University "Kharkiv Aviation Institute." The ICTM'2020 conference was held in Kharkiv, Ukraine on October 28-30, 2020. **Integrated Design and Manufacturing in Mechanical Engineering Proceedings of the Third IDMME Conference Held in Montreal, Canada, May 2000** [Springer Science & Business Media](#) **Proceedings of the Third IDMME Conference held in Montreal, Canada, May 2000 Collaborative Product Assembly Design and Assembly Planning Methodologies and Applications** [Elsevier](#) Collaborative product assembly design and assembly planning presents several newly-developed methodologies and applications for collaborative assembly design and assembly planning, two important steps during the product development life cycle. These benefits include effective and rapid assembly design and assembly planning, thereby reducing the development cost and helping manufacturers enhance profit. With increased development in computer technologies and the Internet, the traditional assembly design and assembly planning have evolved around collaborative assembly design and assembly planning to speed up the product development process. Research in this area has attracted much attention in the past decade. Based on research work in the past few years, this book will present several newly-developed methodologies and applications for collaborative assembly design and assembly planning to improve the efficiency of product development in a collaborative design environment. Provides practical and realistic solutions to engineering problems Methodologies introduced

will lead to future commercialisation of systems Detailed step-by-step case study examples will illustrate the methodologies and be discussed thoroughly Advances in Engineering Research and Application Proceedings of the International Conference, ICERA 2018 [Springer](#) The International Conference on Engineering Research and Applications (ICERA 2018), which took place at Thai Nguyen University of Technology, Thai Nguyen, Vietnam on December 1-2, 2018, provided an international forum to disseminate information on latest theories and practices in engineering research and applications. The conference focused on original research work in areas including Mechanical Engineering, Materials and Mechanics of Materials, Mechatronics and Micro Mechatronics, Automotive Engineering, Electrical and Electronics Engineering, Information and Communication Technology. By disseminating the latest advances in the field, The Proceedings of ICERA 2018, Advances in Engineering Research and Application, helps academics and professionals alike to reshape their thinking on sustainable development. Computational and Experimental Methods in Mechanical Engineering Proceedings of ICCEMME 2021 [Springer Nature](#) This book includes selected peer-reviewed papers presented at third International Conference on Computational and Experimental Methods in Mechanical Engineering held in June 2021 at G.L. Bajaj Institute of Technology and Management, Greater Noida, U.P, India. The book covers broad range of topics in latest research including hydropower, heat transfer, fluid mechanics, advanced manufacturing, recycling and waste disposal, solar energy, thermal power plants, refrigeration and air conditioning, robotics, automation and mechatronics, and advanced designs. The authors are experienced and experts in their field, and all papers are reviewed by expert reviewers in respective field. The book is useful for industry peoples, faculties, and research scholars. Proceedings of First International Conference on Emerging Trends in Mechanical Engineering [Universal-Publishers](#) Advances in Mechatronics, Manufacturing, and Mechanical Engineering Selected articles from MUCET 2019 [Springer Nature](#) This book highlights selected papers from the Mechanical Engineering track, with a focus on mechatronics and manufacturing, presented at the "Malaysian Technical Universities Conference on Engineering and Technology" (MUCET 2019). The conference brings together researchers and professionals in the fields of engineering, research and technology, providing a platform for future collaborations and the exchange of ideas. Benchmarking the Competitiveness of the United States in Mechanical Engineering Basic Research [National Academies Press](#) Mechanical engineering is critical to the design, manufacture, and operation of small and large mechanical systems throughout the U.S. economy. This book highlights the main findings of a benchmarking exercise to rate the standing of U.S. mechanical engineering basic research relative to other regions or countries. The book includes key factors that influence U.S. performance in mechanical engineering research, and near- and longer-term projections of research leadership. U.S. leadership in mechanical engineering basic research overall will continue to be strong. Contributions of U.S. mechanical engineers to journal articles will increase, but so will the contributions from other growing economies such as China and India. At the same time, the supply of U.S. mechanical engineers is in jeopardy, because of declines in the number of U.S. citizens obtaining advanced degrees and uncertain prospects for continuing to attract foreign students. U.S. funding of mechanical engineering basic research and infrastructure will remain level, with strong leadership in emerging areas. Compilation of Abstracts of Dissertations, Theses and Research Papers Submitted by Candidates for Degrees 1967-1968 Recent Advances in Mechanical Engineering Select Proceedings of RAME 2020 [Springer Nature](#) This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields. Computational Methods for Optimizing Manufacturing Technology: Models and Techniques Models and Techniques [IGI Global](#) "This book contains the latest research developments in manufacturing technology and its optimization, and demonstrates the fundamentals of new computational approaches and the range of their potential application"--Provided by publisher.