

## International Journal Of Mechanical Engineering And File Type

We are glad to present the 35th volume of International Journal of Engineering Research in Africa. This volume contains articles describing the research results in the fields of materials science in the mechanical engineering, construction materials, technological processes in the chemical production, power distribution and engineering management. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science.

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.

INTERNATIONAL JOURNAL OF MANUFACTURING, MATERIALS, AND MECHANICAL ENGINEERING (IJMMME) VOLUME 7

International Journal of Manufacturing, Materials, and Mechanical Engineering, Vol 2, ISS 4

International Journal of Engineering Research in Africa

Proceedings of the NATO Advanced Study Institute on Axiomatic, Enriched and Motivic Homotopy Theory Cambridge, United Kingdom 9–20 September 2002

*The 44th volume of International Journal of Engineering Research in Africa contains articles describing the research results in the fields of materials science, mechanical engineering, applied and computational mechanics, construction materials and technologies, technological processes and materials in the petroleum production, natural resources exploration and environmental engineering, robotics, renewable energy, power engineering and control, production management. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science.*

*The NATO Advanced Study Institute "Axiomatic, enriched and motivic 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 organizers 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 categories, 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 participants 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.*

*International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME) Volume 6; to 10; Pages:11 to 20; Pages:21 to 30; Pages:31 to 40; Pages:41 to 50; Pages:51 to 60; Pages:61 to 70; Pages:71 to 77*

*International Journal of Automotive & Mechanical Engineering (IJAME)*

*Recent Advances in Mechanical Engineering*

*International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME) Volume 7; to 10; Pages:11 to 20; Pages:21 to 30; Pages:31 to 40; Pages:41 to 50; Pages:51 to 60; Pages:61 to 70; Pages:71 to 77*

**Computer Engineering: A DEC View of Hardware Systems Design focuses on the principles, progress, and concepts in the design of hardware systems. The selection first elaborates on the seven views of computer systems, technology progress in logic and memories, and packaging and manufacturing. Concerns cover power supplies, DEC computer packaging generations, general packaging, semiconductor logic technology, memory technology, measuring (and creating) technology progress, structural levels of a computer system, and packaging levels-of-integration. The manuscript then examines transistor circuitry in the Lincoln TX-2, digital modules, PDP-1 and other 18-bit computers, PDP-3 and other 12-bit computers, and structural levels of the PDP-8. The text takes a look at cache memories for PDP-11 family computers, buses, DEC LSI-11, and design decisions for the PDP-11/60 mid-range minicomputer. Topics include reliability and maintainability, price/performance balance, advances in memory technology, synchronization of data transfers, error control strategies, PDP-11/45, PDP-11/20, and cache organization. The selection is a fine reference for practicing computer designers, users, programmers, designers of peripherals and memories, and students of computer engineering and computer science.**

**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.**

**July - September 2014. Volume 4, Issue 3**

**April - June 2015. Volume 5, Issue 2**

**Advances in Applied Mechanics**

**International Journal of Manufacturing, Materials, and Mechanical Engineering**

*The International Journal of Mechanical Engineering EducationInternational Journal of Manufacturing, Materials, and Mechanical Engineering, Vol 2, ISS 4IGI PublishingInternational Journal of Manufacturing, Materials, and Mechanical EngineeringInternational Journal of Manufacturing, Materials, and Mechanical Engineering, Vol 3 Iss IIGI PublishingThe International Journal of Mechanical Engineering EducationInternational Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME) Volume 3, Issue 4International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME).July - September 2014. Volume 4, Issue 3Axiomatic, Enriched and Motivic Homotopy TheoryProceedings of the NATO Advanced Study Institute on Axiomatic, Enriched and Motivic Homotopy Theory Cambridge, United Kingdom 9–20 September 2002Springer Science & Business Media*

*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.*

*Applied Mechanics Reviews*

*International Journal of Mechanical Engineering and Materials Sciences*

*Axiomatic, Enriched and Motivic Homotopy Theory*

The International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME) is a refereed, interdisciplinary journal that publishes high quality articles with special emphasis on research and development in manufacturing, materials and mechanical engineering. IJMMME provides discussion and the exchange of information on all important aspects of classical and modern mechanical engineering. In addition, IJMMME covers all sustainable development aspects related with manufacturing, materials, and mechanical engineering.

We present to our readers the 45th volume of "International Journal of Engineering Research in Africa". This volume contains articles reflecting the research results in the fields of materials science, applied mechanics and mechanical engineering, ergonomics and optimization of technological parameters, power distribution and power efficiency, control, faults diagnosis and industrial engineering. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science.

International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME).

Select Proceedings of ITME 2019

Computer Engineering

International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME) Volume 6; to 10; Pages:11 to 20; Pages:21 to 30; Pages:31 to 40; Pages:41 to 50; Pages:51 to 60; Pages:61 to 69

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

We present our readers with the 42nd volume of "International Journal of Engineering Research in Africa". This volume contains articles describing the research results in the fields of materials science, applied mechanics, mechanical engineering, power distribution and power efficiency, construction materials and technologies, biodiesel production, information technologies, and industrial engineering. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science.

Design and Optimization of Mechanical Engineering Products

International Journal of Manufacturing, Materials, and Mechanical Engineering, Vol 3 Iss 1

International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME) Volume 6; to 10; Pages:11 to 20; Pages:21 to 30; Pages:31 to 40; Pages:41 to 50; Pages:51 to 60; Pages:61 to 70; Pages:71 to 73

The International Journal of Mechanical Engineering Education

**We present to our readers the 46th volume of "International Journal of Engineering Research in Africa." This volume contains articles reflecting the research results in the fields of materials science, applied mechanics and mechanical engineering, power engineering and power efficiency, facial expression recognition and optical communication, industrial engineering. The articles will be useful for many engineers as well as for academic teachers and students majoring in the mentioned fields of engineering science.**

**Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering**

**April-June 2011**

**International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME) Volume 3, Issue 4**

**A DEC View of Hardware Systems Design**