

## **International Journal Of Engineering Research Online Vol 4**

Benn's Press Directory  
International Journal of Engineering Research in Africa Vol. 50  
Advances in Biomedical Engineering Research and Application: 2013 Edition  
Engineering Research Methodology  
Proceedings of Mechanical Engineering Research Day 2017  
Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics  
International Journal of Engineering Research in Africa Vol.51  
Encyclopedia of Information Science and Technology, Fourth Edition  
International Journal of Engineering Research in Africa Vol. 24  
International Journal of Engineering Research in Africa Vol. 46  
Granulation  
International Journal of Engineering Research in Africa Vol. 40  
Issues in Engineering Research and Application: 2013 Edition  
International Journal of Engineering Research in Africa Vol. 43  
Food Nanotechnology  
INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH IN AFRICA.  
International Journal of Engineering Research in Africa  
International Journal of Applied Management Sciences and Engineering (IJAMSE).  
International Journal of Engineering Research in Africa  
Handbook of Research on Computational Intelligence for Engineering, Science, and Business  
Carbon Nanotubes: Synthesis, Characterization and Applications  
Advanced Nanoelectronics  
International Journal of Energy Optimization and Engineering (IJE OE).  
Who's Who of Canadian Women, 1999-2000  
Higher Creativity for Virtual Teams: Developing Platforms for Co-Creation  
International Journal of Engineering Research in Africa  
International Journal of Engineering Research in Africa Vol. 52  
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International Journal of Engineering Research in Africa. Vol. 42  
Advances in Bioartificial Materials and Tissue Engineering Research and Application: 2013 Edition  
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Issues in Engineering Research and Application: 2012 Edition  
Creating the Discipline of Knowledge Management  
Biochemical Engineering and Biotechnology  
Nanotechnology for Telecommunications  
International Benchmarking of U.S. Chemical Engineering Research Competitiveness  
International Journal of Engineering Research in Africa  
International Journal of Engineering Research in Africa Vol. 49

### **Benn's Press Directory**

The 49th volume of "International Journal of Engineering Research in Africa" contains peer-reviewed manuscripts reflecting the research results in the fields of materials science, applied mechanics and mechanical engineering. Such issues as sensitivity analysis, renewable energy, pressure gradient, multiphase flow, power quality are raised in the volume. The presented scientific articles can be appreciated by the majority of engineers, academic teachers and students majoring in the fields of engineering science.

### **International Journal of Engineering Research in Africa Vol. 50**

Who's Who of Canadian Women is a guide to the most powerful and innovative women in Canada. Celebrating the talents and achievement of over 3,700 women, Who's Who of Canadian Women includes women from all over Canada, in all fields, including agriculture, academia, law, business, politics, journalism, religion, sports and entertainment. Each biography includes such information as personal data, education, career history, current employment, affiliations, interests and honours. A special comment section reveals personal thoughts, goals, and achievements of the profiled individual. Entries are indexed by employment or affiliation for easy reference. Published every two years, Who's Who of Canadian Women selects its biographees on merit alone. This collection is an essential resource for all those interested in the achievements of Canadian women.

## **Advances in Biomedical Engineering Research and Application: 2013 Edition**

### **Engineering Research Methodology**

We are glad to present to our readers the 37th volume of International Journal of Engineering Research in Africa. This volume contains articles describing the research results in the fields of materials science, mechanical engineering, power distribution, construction materials and technologies, technological processes in the chemical production and environmental engineering, network engineering and supply chain. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science.

### **Proceedings of Mechanical Engineering Research Day 2017**

Advances in Biomedical Engineering Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Advances in Biomedical Engineering Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Biomedical Engineering Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

## **Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics**

Issues in Engineering Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Safety Engineering. The editors have built Issues in Engineering Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Safety Engineering in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Engineering Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

## **International Journal of Engineering Research in Africa Vol.51**

We are glad to provide our readers with the 43rd volume of International Journal of Engineering Research in Africa. This volume contains articles describing the research results in the fields of materials science, mechanical engineering and control, communication and power supply in communication, construction materials and technologies, water treatment and biodiesel production, 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. Amorphous Polymer, Building Materials, Water Treatment, Kaolinite, Biodiesel, Cooking Oil, Screw Conveyor, Two-Wheeled Vehicle, Control, Digital Image Encryption Algorithm, Noise Attacks, 5G Networks, Base Station, Power Supply, Maintenance Activities, Optimization, Lean Manufacturing, Corporate Irresponsibility, Quality Management Materials Science, Building Materials, General Engineering.

## **Encyclopedia of Information Science and Technology, Fourth Edition**

More than \$400 billion worth of products rely on innovations in chemistry. Chemical engineering, as an academic discipline and profession, has enabled this achievement. In response to growing concerns about the future of the discipline, International Benchmarking of U.S. Chemical Engineering Research Competitiveness gauges the standing of the U.S. chemical engineering enterprise in the world. This in-depth benchmarking analysis is based on measures including numbers of published papers, citations, trends in degrees conferred, patent productivity, and awards. The book concludes that the United States is presently, and is expected to remain, among the world's™ leaders in all subareas of chemical engineering research. However, U.S. leadership in some classical and emerging subareas will be strongly challenged. This critical

analysis will be of interest to practicing chemical engineers, professors and students in the discipline, economists, policy makers, major research university administrators, and executives in industries dependent upon innovations in chemistry.

## **International Journal of Engineering Research in Africa Vol. 24**

## **International Journal of Engineering Research in Africa Vol. 46**

### **Granulation**

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. Applied Mechanics, Composites, Wind Turbine, Compressor Turbine, Blades, Biodiesel, Concrete, Reinforced Concrete, Ceiling Boards, Potential Earthquake Harmfulness, Rockfill Dam, Static Synchronous Series Compensator, Power Distribution, Large Scale Photovoltaics Plant, Grid, Smart Monitoring, Spare Parts, Inventory Management, Corporate Social Responsibility Materials Science, Building Materials, General Engineering.

## **International Journal of Engineering Research in Africa Vol. 40**

This journal volume contains papers that reflect research results in materials science, power engineering, and environmental engineering. Additionally, under the focus of this volume is the study on reducing wastes formation in the construction industry. Furthermore, the presented research results may find useful for scientists and engineers deal with powder metallurgy issues and material characterization. Some papers are devoted to solving drilling issues in the oil and gas industry. Eventually, the volume presents an analysis of various algorithms that can find their application in civil and industrial engineering areas.

## **Issues in Engineering Research and Application: 2013 Edition**

This journal volume is available electronically and in print. The online version is available online at

<http://www.scientific.net/jera>.

## **International Journal of Engineering Research in Africa Vol. 43**

While theories based on classical physics have been very successful in helping experimentalists design microelectronic devices, new approaches based on quantum mechanics are required to accurately model nanoscale transistors and to predict their characteristics even before they are fabricated. Advanced Nanoelectronics provides research information on advanced nanoelectronics concepts, with a focus on modeling and simulation. Featuring contributions by researchers actively engaged in nanoelectronics research, it develops and applies analytical formulations to investigate nanoscale devices. The book begins by introducing the basic ideas related to quantum theory that are needed to better understand nanoscale structures found in nanoelectronics, including graphenes, carbon nanotubes, and quantum wells, dots, and wires. It goes on to highlight some of the key concepts required to understand nanotransistors. These concepts are then applied to the carbon nanotube field effect transistor (CNTFET). Several chapters cover graphene, an unzipped form of CNT that is the recently discovered allotrope of carbon that has gained a tremendous amount of scientific and technological interest. The book discusses the development of the graphene nanoribbon field effect transistor (GNRFET) and its use as a possible replacement to overcome the CNT chirality challenge. It also examines silicon nanowire (SiNW) as a new candidate for achieving the downscaling of devices. The text describes the modeling and fabrication of SiNW, including a new top-down fabrication technique. Strained technology, which changes the properties of device materials rather than changing the device geometry, is also discussed. The book ends with a look at the technical and economic challenges that face the commercialization of nanoelectronics and what universities, industries, and government can do to lower the barriers. A useful resource for professionals, researchers, and scientists, this work brings together state-of-the-art technical and scientific information on important topics in advanced nanoelectronics.

## **Food Nanotechnology**

Issues in Engineering Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Noise Control Engineering. The editors have built Issues in Engineering Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Noise Control Engineering in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Engineering Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and

credibility. More information is available at <http://www.ScholarlyEditions.com/>.

## **INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH IN AFRICA.**

Using the same strategy for the needs of image processing and pattern recognition, scientists and researchers have turned to computational intelligence for better research throughputs and end results applied towards engineering, science, business and financial applications. Handbook of Research on Computational Intelligence for Engineering, Science, and Business discusses the computation intelligence approaches, initiatives and applications in the engineering, science and business fields. This reference aims to highlight computational intelligence as no longer limited to computing-related disciplines and can be applied to any effort which handles complex and meaningful information.

## **International Journal of Engineering Research in Africa**

In this issue of journal International Journal of Engineering Research in Africa are collected articles which describe the results of engineering solutions of actual problems in mechanical engineering and processing technologies, researching and designing of machines, in the practice the designing of the communication systems and construction and engineering management of modern production. Published articles will be useful for professionals from field of mechanical engineering, students and academic teachers of the related specialties

## **International Journal of Applied Management Sciences and Engineering (IJAMSE).**

The 50th volume of "International Journal of Engineering Research in Africa" contains peer-reviewed manuscripts reflecting the research results in the fields of materials science, applied mechanics and mechanical engineering. Such issues as Steel Reinforcement, Strain Based Approach, Temperature, Thermo-Physical Properties, Vehicle Dynamics, Water Resources are raised in the volume. The presented scientific papers can be appreciated by the majority of engineers, researchers, academic teachers and students majoring in the fields of engineering science.

## **International Journal of Engineering Research in Africa**

This periodical edition includes peer-reviewed papers based on results of scientific research and engineering solutions in different areas of modern engineering science.

## **Handbook of Research on Computational Intelligence for Engineering, Science, and Business**

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

## **Carbon Nanotubes: Synthesis, Characterization and Applications**

This e-book is a compilation of papers presented at the Mechanical Engineering Research Day 2017 (MERD'17) - Melaka, Malaysia on 30 March 2017.

## **Advanced Nanoelectronics**

The book covers all the important aspects of research methodology, and addresses the specific requirements of engineering students, such as methods and tools, in detail. It also discusses effective research in engineering today, which requires the ability to undertake literature reviews utilizing different online databases, to attribute credit for any prior work mentioned, to respect intellectual property rights while simultaneously maintaining ethics in research, and much more. Further, the book also considers soft skills like research management and planning, dealing with criticism in research and presentation skills, which are all equally important and need to include in research methodology education. Lastly, it provides the technical knowhow needed to file patents in academia, an important area that is often ignored in research methodology books. The book is a particularly valuable resource for PhD students in India and South East Asia, as research methodology is a part of their coursework.

## **International Journal of Energy Optimization and Engineering (IJEEO).**

Nanotechnology offers great potential to revolutionize conventional food science and the food industry. The use of nanotechnology in the food industry promises improved taste, flavor, color, texture, and consistency of foodstuffs and increased absorption and bioavailability of nutraceuticals. Food Nanotechnology: Principles and Applications examines the current state of nanoscale phenomena and processes, benefits and risks of nanotechnology. This work contains 18 chapters particularly focused on the design, production, and utilization of nanoparticles, with specific applications for the food industry. Through several studies, it has been proven that nanotechnology can offer distinct advantages over conventional methods in terms of functionality, targeted delivery of food bioactive compounds, improved food quality characteristics like texture, taste, sensory attributes and improved stability in the gastrointestinal tract, and controlled release profiles. Features Offers clear and concise coverage on application of nanotechnology in nutrient delivery, food packaging, and pathogen/pesticide detection Addresses both the technological aspects of delivering nano-based food products and the societal implications that affect take-up Covers broad range of topics including nanoemulsification, electrospraying, nanocomposites, plasma processing, and nanosensors Discusses different formulation and preparation methods for loading food bioactive compounds Exploratory in nature, this book presents the latest of such data on all aspects of applications of nanotechnology in food systems. With its practical focus on the fabrication and application of nanotechnology in food, this book is a valuable resource for students, researchers, food process engineers.

## **Who's Who of Canadian Women, 1999-2000**

With its unique promise to revolutionize science, engineering, technology, and other fields, nanotechnology continues to profoundly impact associated materials, components, and systems, particularly those used in telecommunications. These developments are leading to easier convergence of related technologies, massive storage data, compact storage devices, and higher-performance computing. Nanotechnology for Telecommunications presents vital technical scientific information to help readers grasp issues and challenges associated with nanoscale telecommunication system development and commercialization—and then avail themselves of the many opportunities to be gleaned. This book provides technical information and research ideas regarding the use of nanotechnology in telecommunications and information processing, reflecting the continuing trend toward the use of optoelectronics. Nanotech will eventually lead to a technology cluster that offers a complete range of functionalities for systems used in domains including information, energy, construction, environmental, and biomedical. Describing current and future developments that hold promise for significant innovations in telecommunications, this book is organized to provide a progressive understanding of topics including: Background information on nanoscience and nanotechnology Specific applications of nanotechnology in telecommunications Nanostructured optoelectronic materials MEMS, NEMS, and their applications in communication systems Quantum dot Cellular Automata (QCA) and its applications in telecommunication systems How nonohmic nonlinear behavior affects both digital and analog signal processing Concepts regarding quantum switching and its applications in quantum networks The

scale of the physical systems that use nanoscale electronic devices is still large, and that presents serious challenges to the establishment of interconnections between nanoscale devices and the outside world. Also addressing consequent social implications of nanotech, this book reviews a broad range of the nano concepts and their influence on every aspect of telecommunications. It describes the different levels of interconnections in systems and details the standardized assembly process for a broad spectrum of micro-, nano-, bio-, fiber-optic, and optoelectronic components and functions. This book is a powerful tool for understanding how to harness the power of nanotech through integration of materials, processes, devices, and applications.

### **Higher Creativity for Virtual Teams: Developing Platforms for Co-Creation**

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.

### **International Journal of Engineering Research in Africa**

The 51st volume of "International Journal of Engineering Research in Africa" includes peer-reviewed manuscripts reflecting the research results in the fields of materials science, applied mechanics, mechanical and power engineering, biomass processing, communication, construction, engineering management, and applied use of computational procedures and optimization methods in the research practice. The presented scientific articles can be appreciated by the majority of engineers, academic teachers, and students majoring in the fields of engineering science.

### **International Journal of Engineering Research in Africa Vol. 52**

### **International Journal of Engineering Research in Africa Vol. 48**

We are glad to present our readers with the 40th volume of International Journal of Engineering Research in Africa. This volume contains articles describing the research results in the fields of materials science, mechanical engineering, power distribution and power control, construction materials and technologies, technological processes in the wastewater

treatment 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. Composites, Metal Matrix Composite, Concrete, Building Materials, Mineral Waste, Seismic Motion, Wastewater Treatment, Vortex Condenser, Atmospheric Moisture, Power Engineering, Power Control, Industrial Engineering, Product Quality, Fuzzy Control, Intergrated Planning, Lean Manufacture Materials Science.

## **International Journal of Engineering Research in Africa**

In this book Dr. Michael Stankosky, founder of the first doctoral program in knowledge management, sets out to provide a rationale and solid research basis for establishing Knowledge Management (KM) as an academic discipline. While it is widely known that Knowledge is the driver of our knowledge economy, Knowledge Management does not yet have the legitimacy that only rigorous academic research can provide. This book lays out the argument for KM as a separate academic discipline, with its own body of knowledge (theoretical constructs), guiding principles, and professional society. In creating an academic discipline, there has to be a widely accepted theoretical construct, arrived at by undergoing scholarly scientific investigation and accompanying rigor. This construct becomes the basis for an academic curriculum, and proven methodologies for practice. Thus, the chapters in this book bridge theory and practice, providing guiding principles to those embarking on or evaluating the merits of a KM program. As a methodology itself for undertaking the development of a body of knowledge, a KM Research Map was developed to guide scholars, researchers, and practitioners. This book presents this map, and showcases cutting-edge scholarship already performed in this nascent field by including the dissertation results of eleven KM scholar/practitioners.

## **International Journal of Engineering Research in Africa**

"This book presents advanced research on the concept of creativity using virtual teams, demonstrating a specific focus and application for virtual teams. It presents tools, processes, and frameworks to advance the overall concept that leveraging ideas from different locations in an organization and within extended networks is based on creativity, which can deliver innovation"--Provided by publisher.

## **International Journal of Engineering Research in Africa. Vol. 42**

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. Coating, Thin Film, Surface Treatment, Corrosion Resistance, Alloys, Fuel Cladding, Microstructure, Additive Manufacturing, Polylactic Acid Plastic, Fused Deposition, Multiresponse Optimization, Crack Growth Behaviour, Aluminum Plate, Numerical Modeling, Seed Shelling Machine, Free-Space Optical Communication, Facial Expression Recognition, Human-Robots Interaction, Optimal Reactive Power Dispatch Problem, Load Frequency Control, Wind Turbine, Doubly Fed Induction Generator, Active Power Filter, Fuzzy Logic Controller, Microgrid System, Renewable Energy Resources, Battery Storage System, Well Placement, Production Optimization, Maintenance Management, Petri Networks Model, Airline Fuel Planning, Fuel Management Optimization Materials Science, General Engineering, Mechanical Engineering.

### **Advances in Bioartificial Materials and Tissue Engineering Research and Application: 2013 Edition**

In the current volume of journal "International Journal of Engineering Research in Africa" are collected papers by results of scientific and engineering researches from the many branches of applied sciences, starting from materials science and finishing to the logistics and management of the modern industrial manufacture. This collection will be useful and interesting for a wide range of engineers, researchers and students. Materials, Processing Technologies, Construction, Power Control, Data Processing, IT Technologies, Logistics, Industrial Management General Engineering.

### **International Journal of Engineering Research in Africa**

Collection of selected, peer reviewed papers from the special topic volume with invited peer reviewed papers only. The 27 papers are grouped as follows: Chapter 1: Applied Decisions in Automation of Technical Systems and Processes Operation Chapter 2: Theory of Designing of Control Systems Chapter 3: Sensors, Measurements and Actuators for Automation of Technical Systems

### **Issues in Engineering Research and Application: 2012 Edition**

Granulation provides a complete and comprehensive introduction on the state-of-the-art of granulation and how it can be applied both in an academic context and from an industrial perspective. Coupling science and engineering practices it covers differing length scales from the sub-granule level through behaviour through single granules, to bulk granule behaviour and equipment design. With special focus on a wide range of industrially relevant areas from fertilizer production, through to pharmaceuticals. Experimental data is complemented by mathematical modelling in this emerging field, allowing for a greater understanding of the basis of particle products and this important industry sector. Four themes run through

the book: 1. The Macro Scale processing for Granulation – including up to date descriptions of the methods used for granulation and how they come about and how to monitor – on-line these changes. 2. The Applications of granulation from an industrial perspective, with current descriptive roles and how they are undertaken with relevance to industry, and effective properties. 3. Mechanistic descriptions of granulation and the different rate processes occurring within the granulator. This includes methods of modelling the process using Population – Balance Equations, and Multi-level Computational Fluid Dynamics Models. 4. The Micro Scale: Granules and Smaller, looking at single granules and their interactions and modelling, while also considering the structure of granules and their constituent liquid bridges. \* Covers a wide range of subjects and industrial applications \* Provides an understanding of current issues for industrial and academic environments \* Allows the reader an understanding of the science behind engineered granulation processes

## **Creating the Discipline of Knowledge Management**

Advances in Bioartificial Materials and Tissue Engineering Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Artificial Grafts. The editors have built Advances in Bioartificial Materials and Tissue Engineering Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Artificial Grafts in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Bioartificial Materials and Tissue Engineering Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

## **Biochemical Engineering and Biotechnology**

The 48th volume of "International Journal of Engineering Research in Africa" is presented to your attention. The included papers are reflecting the research results in the fields of materials science, applied mechanics and mechanical engineering, power engineering, power efficiency, control, mechatronics, communication and industrial engineering. The proposed scientific articles can be useful for the majority of engineers as well as for academic teachers and students majoring in the mentioned fields of engineering science.

## **Nanotechnology for Telecommunications**

This journal volume is available electronically and in print. The online version is available online at <http://www.scientific.net/jera>.

## **International Benchmarking of U.S. Chemical Engineering Research Competitiveness**

### **International Journal of Engineering Research in Africa**

From cloud computing to data analytics, society stores vast supplies of information through wireless networks and mobile computing. As organizations are becoming increasingly more wireless, ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative. *Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics* highlights the challenges associated with creating a strong network architecture in a perpetually online society. Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data. This book is an important resource for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, and IT specialists seeking modern information on emerging methods in data mining, information technology, and wireless networks.

### **International Journal of Engineering Research in Africa Vol. 49**

*Biochemical Engineering and Biotechnology, 2nd Edition*, outlines the principles of biochemical processes and explains their use in the manufacturing of every day products. The author uses a direct approach that should be very useful for students in following the concepts and practical applications. This book is unique in having many solved problems, case studies, examples and demonstrations of detailed experiments, with simple design equations and required calculations. Covers major concepts of biochemical engineering and biotechnology, including applications in bioprocesses, fermentation technologies, enzymatic processes, and membrane separations, amongst others Accessible to chemical engineering students who need to both learn, and apply, biological knowledge in engineering principals Includes solved problems, examples, and demonstrations of detailed experiments with simple design equations and all required calculations Offers many graphs that present actual experimental data, figures, and tables, along with explanations

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