

Tshwane University Of Technology Tests Question Papers

Introduces genetic research and the controversies surrounding the topic, including the ethics of genetic research and engineering, using the discipline for health and legal issues, and genetically engineering nonhuman organisms.

This book is one out of 8 IAEG XII Congress volumes, and deals with the theme of urban geology. Along with a rapidly growing world population, the wave of urban growth continues, causing cities to swell and new metropolitan centers to emerge. These global trends also open new ventures for underground city development. Engineering geology plays a major role in facing the increasing issues of the urban environment, such as: finding aggregates for construction works; providing adequate water supply and waste management; solving building problems associated to geological and geomorphological conditions; evaluating host rock conditions for underground constructions; preventing or mitigating geological and seismic hazards. Furthermore, this book illustrates recent advancements in sustainable land use planning, which includes conservation, protection, reclamation and landscape impact of open pit mining and alternative power generation. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: 1. Climate Change and Engineering

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Geology 2. Landslide Processes River Basins 3. Reservoir Sedimentation and Water Resources 4. Marine and Coastal Processes Urban Geology 5. Sustainable Planning and Landscape Exploitation 6. Applied Geology for Major Engineering Projects 7. Education, Professional Ethics and Public Recognition of Engineering Geology 8. Preservation of Cultural Heritage

This book constitutes the refereed proceedings of the 14th International Symposium on Visual Computing, ISVC 2019, held in Lake Tahoe, NV, USA in October 2019. The 100 papers presented in this double volume were carefully reviewed and selected from 163 submissions. The papers are organized into the following topical sections: Deep Learning I; Computer Graphics I; Segmentation/Recognition; Video Analysis and Event Recognition; Visualization; ST: Computational Vision, AI and Mathematical methods for Biomedical and Biological Image Analysis; Biometrics; Virtual Reality I; Applications I; ST: Vision for Remote Sensing and Infrastructure Inspection; Computer Graphics II; Applications II; Deep Learning II; Virtual Reality II; Object Recognition/Detection/Categorization; and Poster.

Military technology is highly advanced in terms of technology being used in the field, computer applications, artificial intelligence, and software applications. These high-performance technologies range from weapons to communications technology to automation in vehicles and weaponry. These technologies must be both secure and reliable in harsh environments. Research is being focused specifically on that, including how military and defense applications operate, what modern technologies are being used, and the ethics surrounding these applications. A holistic view of these applications is necessary for both understanding current military tactics and tools along with the future applications. The Research Anthology on Military

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and Defense Applications, Utilization, Education, and Ethics focuses specifically on military and defense operations, expenditure, technologies, and tools, and the ethics surrounding technologies like weaponry and artificial intelligence in the military. The chapters cover a wide and diverse range of military and defense applications while providing crucial information on the functions, security, and reliability of these technologies. Beyond an understanding of the applications themselves, this book also focuses on military education surrounding these technologies and the ethics of usage to provide a well-rounded understanding of research in the field. This book is ideal for military consultants, military personnel, defense agencies, national security agencies, government officials, defense personnel, policymakers, military educators and trainers, stakeholders, practitioners, researchers, academicians, and students interested in the latest research in military and defense applications.

March 07-08, 2019 Berlin, Germany

Key Topics:

Material Science and Engineering, Materials and Devices, Nanotechnology in Materials Science, Catalysis and Energy Materials, Surface Science and Engineering, Biomaterials and Tissue Engineering, Ceramic Engineering, Polymers, Advanced Graphene and Carbon Materials, Electrical, Optical, Magnetic Materials, Advanced Materials, Materials

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Characterization and Applications,

The widespread deployment and use of Information Technologies (IT) has paved the way for change in many fields of our societies. The Internet, mobile computing, social networks and many other advances in human communications have become essential to promote and boost education, technology and industry. On the education side, the new challenges related with the integration of IT technologies into all aspects of learning require revising the traditional educational paradigms that have prevailed for the last centuries. Additionally, the globalization of education and student mobility requirements are favoring a fluid interchange of tools, methodologies and evaluation strategies, which promote innovation at an accelerated pace. Curricular revisions are also taking place to achieved a more specialized education that is able to responds to the societys requirements in terms of professional training. In this process, guaranteeing quality has also become a critical issue. On the industrial and technological side, the focus on ecological developments is essential to achieve a sustainable degree of prosperity, and all efforts to promote greener societies are welcome. In this book we gather knowledge and experiences of different authors on all these topics, hoping to offer the reader a wider view of the revolution taking place within and without our educational centers. In summary, we believe that this book makes an important contribution to the fields of education and technology in these times of great change, offering a mean for experts in the different areas to share valuable experiences and points of view that we hope are enriching to the reader. Enjoy the book!

This collection focuses on energy efficient technologies including innovative ore beneficiation,

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smelting technologies, recycling and waste heat recovery. The volume also covers various technological aspects of sustainable energy ecosystems, processes that improve energy efficiency, reduce thermal emissions, and reduce carbon dioxide and other greenhouse emissions. Papers addressing renewable energy resources for metals and materials production, waste heat recovery and other industrial energy efficient technologies, new concepts or devices for energy generation and conversion, energy efficiency improvement in process engineering, sustainability and life cycle assessment of energy systems, as well as the thermodynamics and modeling for sustainable metallurgical processes are included. This volume also includes topics on CO₂ sequestration and reduction in greenhouse gas emissions from process engineering, sustainable technologies in extractive metallurgy, as well as the materials processing and manufacturing industries with reduced energy consumption and CO₂ emission. Contributions from all areas of non-nuclear and non-traditional energy sources, such as solar, wind, and biomass are also included in this volume. Papers from the following symposia are presented in the book: Energy Technologies and CO₂ Management Advanced Materials for Energy Conversion and Storage Deriving Value from Challenging Waste Streams: Recycling and Sustainability Joint Session Solar Cell Silicon Stored Renewable Energy in Coal This book contains a selection of revised and extended research articles written by prominent researchers participating in the 27th World Congress on Engineering and Computer Science (WCECS 2019) which was held in San Francisco, USA, on October 22–24, 2019. Topics covered include engineering mathematics, electrical engineering, communications systems, computer

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science, chemical engineering, systems engineering, manufacturing engineering, and industrial applications. With contributions carefully chosen to represent the most cutting-edge research presented during the conference, the book contains some of the state-of-the-art in engineering technologies and the physical sciences and their applications and serves as a useful reference for researchers and graduate students working in these fields.

Advances in bridge maintenance, safety, management and life-cycle performance contains the papers presented at IABMAS'06, the Third International Conference of the International Association for Bridge Maintenance and Safety (IABMAS), held in Porto, Portugal from 16 to 19 July, 2006. All major aspects of bridge maintenance, management, safety, and co

This volume contains 20 manuscripts presented during the Materials Science & Technology 2017 Conference (MS&T'17), held October 8-12, 2017 at the David L. Lawrence Convention Center, Pittsburgh, PA. Papers from the following symposia are included in this volume:

- 9th International Symposium on Green and Sustainable Technologies for Materials Manufacturing and Processing
- Advances in Dielectric Materials and Electronic Devices
- Construction and Building Materials for a Better Environment
- Innovative Processing and Synthesis of Ceramics, Glasses and Composites
- Materials Issues in Nuclear

Waste Management in the 21st Century • Materials Development for Nuclear Applications and Extreme Environments • Materials for Nuclear Energy Applications • Nanotechnology for Energy, Healthcare and Industry • Processing and Performance of Materials Using Microwaves, Electric and Magnetic Fields, Ultrasound, Lasers, and Mechanical Work – Rustum Roy Symposium These symposia provided a forum for scientists, engineers, and technologists to discuss and exchange state-of-the-art ideas, information, and technology on advanced methods and approaches for processing, synthesis, characterization, and applications of ceramics, glasses, and composites. Each manuscript was peer-reviewed using The American Ceramic Society's review process. The editors wish to extend their gratitude and appreciation to their symposium co-organizers, to all of the authors for their valuable submissions, to all the participants and session chairs for their time and effort, and to all the reviewers for their comments and suggestions. We hope that this volume will serve as a useful reference for the professionals working in the field of materials science.

Transactions on Engineering Technologies World Congress on Engineering and Computer Science 2019 Springer Nature

Voluntary counselling and testing (VCT) has become a vital process in combating the spread of HIV/AIDS. Yet little has been published on how students

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experience the process of VCT. This study sought to describe and understand the experiences of voluntary counselling and testing among four students at Tshwane University of Technology. This research project focussed on students' experiences when reporting for voluntary counselling and testing. The results were used to make recommendations for strategies to increase the accessibility and uptake of VCT by students. Using a phenomenological approach, tape recorded interviews were conducted with the four students of Tshwane University of Technology (TUT). The data were then categorised into five themes relating to the experience of VCT: emotions, perceptions, actions, thoughts and desires. The results showed that the students were mostly dissatisfied with the VCT clinic's procedures and the counsellor's attitudes. Also evident from this study was that counsellors' professionalism, peer support, and a service that offers both pre- and post-test counselling play a significant role in students' use of VCT. The findings of this study suggest that the following could be used as strategies to motivate students to utilise VCT services of VCT: (1) increase access and acceptability of VCT for students: (2) ensure access to factual information in the form of counselling: (3) make counselling a priority.

This book constitutes the refereed proceedings of the 46th Annual Conference of the Southern African Computer Lecturers' Association on ICT Education, SACLA

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2017, held in Magaliesburg, South Africa, in July 2017. The 22 revised full papers presented together with an extended abstract of a keynote paper were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections on ICT students of a new generation; technology and gaming in nowadays education; educational cooperation with the ICT industry; computer programming education; ICT courses and curricula.

Individually, the fields of organizational politics and strategic information technology have soared in popularity. Studies suggest that the interaction between the two would prove beneficial to both the academic and corporate domains. This integration would serve to enable, support, and manage modern businesses. Strategic Information Technology Governance and Organizational Politics in Modern Business gives voice to fresh perspectives on the development, implementation, and practice of information systems and technology in organizations. This book is beneficial for business people, undergraduate students, postgraduate candidates, and researchers looking to gain a more in-depth understanding of the influence of socio-technical factors on ICT operations.

Premised on the disruption and lessons learnt from the Covid-19 pandemic, and in meticulous response to the impact of the pandemic on higher education – especially in South Africa – this

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collection of chapters spotlights the effects, consequences, and ramifications of an unprecedented pandemic in the areas of knowledge production, knowledge transfer and innovation. With the pandemic, the traditional way of teaching and learning was completely upended. It is within this context that this book presents interdisciplinary perspectives that focus on what the impact of Covid-19 implies for higher education institutions. Contributors have critically reflected from within their specific academic disciplines in their attempt to proffer solutions to the disruptions brought to the South African higher education space. Academics and education leaders have particularly responded to the objective of this book by focusing on how the academia could tackle the Covid-19 motivated disruption and resuscitate teaching, research, and innovation activities in South African higher education, and the whole of Africa by extension.

This series of books brings together results of an extensive research programme on aspects of the national systems of innovation (NSI) in the five BRICS countries — Brazil, Russia, India, China, and South Africa. It provides a comprehensive and comparative examination of the challenges and opportunities faced by these dynamic and emerging economies. In discussing the impact of innovation with respect to economic, geopolitical, socio-cultural, institutional, and technological systems, it reveals the possibilities of new development paradigms for equitable and sustainable growth. This volume, third in the series, looks at the relationship between small and medium enterprises (SMEs) and the National Systems of Innovation in the BRICS countries. It brings to fore crucial issues in the evolution and future trends of industrial or innovation policies for small firms: their scope, applicability, co-ordination, and main results, as well as the influence of macroeconomic, legal and regulatory environments. Taking into

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account the specificities and complexities of SMEs' production and innovation systems, it seeks to inform research, policy design and implementation in the field. Original and detailed data, together with expert analyses on wide-ranging issues, make this book an invaluable resource for researchers and scholars in economics, development studies and political science, in addition to policy makers and development practitioners interested in the BRICS countries.

The ten-volume set LNCS 12949 – 12958 constitutes the proceedings of the 21st International Conference on Computational Science and Its Applications, ICCSA 2021, which was held in Cagliari, Italy, during September 13 – 16, 2021. The event was organized in a hybrid mode due to the Covid-19 pandemic. The 466 full and 18 short papers presented in these proceedings were carefully reviewed and selected from 1588 submissions. The books cover such topics as multicore architectures, blockchain, mobile and wireless security, sensor networks, open source software, collaborative and social computing systems and tools, cryptography, applied mathematics human computer interaction, software design engineering, and others. Part IV of the set includes the papers on Urban and Regional Planning and the proceedings of the following workshops: ?International Workshop on Blockchain and Distributed Ledgers: Technologies and Applications (BDLTA 2021); International Workshop on Computational and Applied Mathematics (CAM 2021); International Workshop on Computational and Applied Statistics (CAS 2021); International Workshop on Computerized Evaluation of Economic Activities: Urban Spaces (CEEAA 2021). The chapters "Automated Housing Price Valuation and Spatial Data", "Spatial Automated Valuation Model (sAVM) - from the notion of space to the design of an evaluation tool", and "A MCDA/GIS-based approach for evaluating accessibility to

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Research papers on Collaborative Work / Working Together / Teams, Control, Audit, and Security, Curriculum Issues, Decision Making / Business Intelligence (DM/BI), Distance Education & e-Learning, Doctoral Studies, Economic Aspects, Education / Training, Educational Assessment & Evaluation, Ethical, and Social, & Cultural Issues

This volume presents a collection of peer-reviewed, scientific articles from the 15th International Conference on Information Technology – New Generations, held at Las Vegas. The collection addresses critical areas of Machine Learning, Networking and Wireless Communications, Cybersecurity, Data Mining, Software Engineering, High Performance Computing Architectures, Computer Vision, Health, Bioinformatics, and Education.

"The collection of cases in the book analyzes and evaluates how organizations and institutions of learning in the developing and developed world are adapting to technology enhanced learning environments and exploring transnational collaborative opportunities"--Provided by publisher.

Oral Cancer: New Insights for the Healthcare Professional / 2012 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Oral Cancer in a concise format. The editors have built Oral Cancer: New Insights for the Healthcare Professional / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Oral Cancer 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 Oral Cancer: New Insights for the Healthcare Professional / 2012

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These Proceedings represent the work of contributors to the 14th European Conference on e-Learning, ECEL 2015, hosted this year by the University of Hertfordshire, Hatfield, UK on 29-30 October 2015. The Conference and Programme Co-Chairs are Professor Amanda Jefferies and Dr Marija Cubric, both from the University of Hertfordshire. The conference will be opened with a keynote address by Professor Patrick McAndrew, Director, Institute of Educational Technology, Open University, UK with a talk on "Innovating for learning: designing for the future of education." On the second day the keynote will be delivered by Professor John Traxler, University of Wolverhampton, UK on the subject of "Mobile Learning - No Longer Just e-Learning with Mobiles." ECEL provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual advances in many different branches of e-Learning. At the same time, it provides an important opportunity for members of the EL community to come together with peers, share knowledge and exchange ideas. With an initial submission of 169 abstracts, after the double blind, peer review process there are 86 academic papers, 16 Phd Papers, 5

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Work in Progress papers and 1 non academic papers in these Conference Proceedings. These papers reflect the truly global nature of research in the area with contributions from Algeria, Australia, Austria, Belgium, Botswana, Canada, Chile, Coventry, Czech Republic, Denmark, Egypt, England, Estonia, France, Germany, Ireland, Japan, Kazakhstan, New Zealand, Nigeria, Norway, Oman, Portugal, Republic of Kazakhstan, Romania, Saudi Arabia, Scotland, Singapore, South Africa, Sweden, the Czech Republic, Turkey, Uganda, UK, United Arab Emirates, UK and USA, Zimbabwe. A selection of papers - those agreed by a panel of reviewers and the editor will be published in a special conference edition of the EJEL (Electronic Journal of e-Learning www.ejel.org).

At a time when the applications of sensors are in high demand and environmental issues are international priorities, this book on biomedical and environmental sensing provides the technical basis for researchers and students to understand the requirements for biomedical computing and also environmental sensing and to develop solutions in their areas of interests. The book deals with key techniques that need to be understood and also examples of applications of the techniques. Biomedical and environmental sensing are helping to extend the life span of human beings and infrastructures as it has become more and more sensible to understand what is happening for example inside a person, an aircraft, a road network or a bridge and to provide quick response. Several chapters of the book have dealt with the state of the art

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in biomedical decision support systems in therapeutic medicine. A data driven decision support system and a prototype support system for anaesthetics are major enablers for doctors and nurses to provide efficient and timely response not only to diagnose ailments but also to decide on the preferred approach for solving the problems. The analyses in the chapters are coherently detailed and easy to comprehend. There is a chapter on hypothermia therapy and a hardware probe was also developed and described. Classification of chromosomes is a major aid in DNA analysis and recognition. This valuable insight into a DNA analysis method is provided. Information on heart diseases, onset of heart attacks and failure can be detected through reconstructing electrophysiological information about the surface of the heart. A reconstruction method is described in this book and provides strong foundation for research and training in this life determining area. The remaining chapters on sensing of driver conditions including fatigue peeks into tools and methodologies for understanding both the onset of fatigue and its forms for prevention of accidents in vehicles. The rest of the book gives techniques for planning biomedical and environmental sensor networks and their security. The book will no doubt greatly serve the needs of health professionals, researchers in the health and environmental industry and policy makers.

Issues in Men's Health and Medicine: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Prostate Research.

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The editors have built Issues in Men's Health and Medicine: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Prostate 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 Issues in Men's Health and Medicine: 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/>.

“Africa and Beyond: Arts and Sustainable Development is a massive undertaking by thoughtful theorists and practitioners in the creative/cultural industry. The combined effect of the volume is to disabuse the fixed, prevailing conception of the role of culture in society; a view that consigns the arts to the periphery of social life, devoid of any meaningful contribution to the alleviation of poverty and general development. Contrary to this view, the volume presents a more comprehensive, meaningful, insightful set of perspectives and paradigms that ascribe agency to creative/cultural products in all facets of human development. The usefulness of the volume extends beyond the industry itself. It is meant for a broader readership and is therefore highly recommended for specialists and the public at large.” – Professor Mokubung Nkomo, Deputy Vice-

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Chancellor, Tshwane University of Technology, South Africa

Containing the proceedings from the 9th International Conference on Waste Management and the Environment, this book is a collection of research on current waste disposal methods, as well as highlighting better practices and safer solutions for the future. Waste Management is one of the key problems of modern society due to the ever-expanding volume and complexity of discarded domestic and industrial waste. Society is increasingly aware of the need to establish better practices and safer solutions for waste disposal. This requires further investigation into disposal methods and recycling as well as new technologies to monitor landfills, industrial mining wastes and chemical and nuclear repositories. This creates a need for more research on current disposal methods such as landfills, incineration, chemical and effluent treatment, as well as recycling, clean technologies, waste monitoring, public and corporate awareness and general education. The papers contained in this title form a collective record of scientific information and work on the current situation of waste management amongst professionals, researchers, government departments and local authorities.

This book contains the full proceedings of the 2015 Academy of Marketing Science World Marketing Congress held in Bari, Italy. The current worldwide business environment is leading marketing scholars and practitioners to reconsider a number of historical and current views of the marketplace and how it functions. Further,

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determining new marketing theories and practical methods whose effectiveness can be truly measured must be added to the list of current challenges for today and tomorrow. In such a period in marketing history, achieving and managing efficient and effective marketing actions is a necessity. Determining such actions is based on practical experience, solid theory and appropriate research methodology. The enclosed papers focus on new research ideas on vibrant topics that can help academics and practitioners gain new perspectives and insights into today's turbulent marketplace. Founded in 1971, the Academy of Marketing Science is an international organization dedicated to promoting timely explorations of phenomena related to the science of marketing in theory, research, and practice. Among its services to members and the community at large, the Academy offers conferences, congresses and symposia that attract delegates from around the world. Presentations from these events are published in this Proceedings series, which offers a comprehensive archive of volumes reflecting the evolution of the field. Volumes deliver cutting-edge research and insights, complimenting the Academy's flagship journals, Journal of the Academy of Marketing Science (JAMS) and AMS Review. Volumes are edited by leading scholars and practitioners across a wide range of subject areas in marketing science. Handbook of Nanomaterials for Industrial Applications explores the use of novel nanomaterials in the industrial arena. The book covers nanomaterials and the techniques that can play vital roles in many industrial procedures, such as increasing

sensitivity, magnifying precision and improving production limits. In addition, the book stresses that these approaches tend to provide green, sustainable solutions for industrial developments. Finally, the legal, economical and toxicity aspects of nanomaterials are covered in detail, making this is a comprehensive, important resource for anyone wanting to learn more about how nanomaterials are changing the way we create products in modern industry. Demonstrates how cutting-edge developments in nanomaterials translate into real-world innovations in a range of industry sectors Explores how using nanomaterials can help engineers to create innovative consumer products Discusses the legal, economical and toxicity issues arising from the industrial applications of nanomaterials

Noncarboxylic Acids—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Noncarboxylic Acids. The editors have built Noncarboxylic Acids—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Noncarboxylic Acids 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 Noncarboxylic Acids—Advances in 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

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Noncarboxylic Acids—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Hydrogen Sulfide. The editors have built Noncarboxylic Acids—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Hydrogen Sulfide 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 Noncarboxylic Acids—Advances in 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/>.

Insights and Innovations in Structural Engineering, Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016, Cape Town, South Africa, 5-7 September 2016). The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures (buildings, bridges, towers, roofs, foundations, offshore structures, tunnels, dams, vessels, vehicles and machinery) and engineering materials (steel, aluminium, concrete, masonry, timber, glass, polymers, composites, laminates, smart materials). Some contributions present the latest insights and new understanding on (i) the mechanics of structures and systems (dynamics, vibration, seismic response, instability, buckling, soil-

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structure interaction), and (ii) the mechanics of materials and fluids (elasticity, plasticity, fluid-structure interaction, flow through porous media, biomechanics, fracture, fatigue, bond, creep, shrinkage). Other contributions report on (iii) recent advances in computational modelling and testing (numerical simulations, finite-element modeling, experimental testing), and (iv) developments and innovations in structural engineering (planning, analysis, design, construction, assembly, maintenance, repair and retrofitting of structures). Insights and Innovations in Structural Engineering, Mechanics and Computation is particularly of interest to civil, structural, mechanical, marine and aerospace engineers. Researchers, developers, practitioners and academics in these disciplines will find the content useful. Short versions of the papers, intended to be concise but self-contained summaries of the full papers, are collected in the book, while the full versions of the papers are on the accompanying CD. This compendium gathers the latest advances in the area of Accelerated Pavement Testing (APT), a means of testing full-scale pavement construction in an accelerated manner for structural deterioration in a very short term. Compiling novel research results presented at the 5th International Conference on Accelerated Pavement Testing, San Jose, Costa Rica, the volume serves as a timely and highly relevant resource for materials scientists and engineers interested in determining the performance of a pavement structure during its service life (10+ years) in a few weeks or months.

Issues in Energy Conversion, Transmission, and Systems: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Additional Research. The editors have built Issues in Energy Conversion, Transmission, and Systems: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the

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information about Additional 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 Issues in Energy Conversion, Transmission, and Systems: 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/>.

Photosynthesis is the process by which plants, algae and certain species of bacteria transform solar energy into chemical energy in the form of organic molecules. In fact, all life on the planet ultimately depends on photosynthetic energy conversion. The book provides a compressive and state-of-the-art of very recent progress on photosynthesis research. The topics span from atom to intact plants, from femtosecond reactions to season long production, from physics to agronomy. The book is to offer advanced undergraduate students, graduate students, and research specialists the most recent advances in the all aspects of photosynthesis research. The book is intended to offer researchers detailed information on the most recent advances in all aspects of photosynthesis research. Tingyun Kuang is a professor at Institute of Botany, the Chinese Academy of Sciences (CAS) and the Academician of CAS; Congming Lu is a professor at Institute of Botany, CAS; Lixin Zhang is a professor at Institute of Botany, CAS and the Chief Scientist in the National Basic Research Program of China on photosynthesis. Advances in Steel Research and Application / 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional

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Research in a concise format. The editors have built Advances in Steel 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 Steel 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/>.

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