



# higher education & training

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**REPUBLIC OF SOUTH AFRICA**

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ENGINEERING SCIENCE N2**

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**21 November 2016 (X-Paper)  
09:00 – 12:00**

**This question paper consists of 6 pages, 2 diagram sheets and 1 formula sheet.**

# Engineering Science Nof 18 November 2014

**LL Leslie**



## **Engineering Science Nof 18 November 2014:**

Entrepreneurship Education at Universities Christine K. Volkmann, David B. Audretsch, 2017-06-15 This volume discusses entrepreneurship education in Europe on the basis of in depth case studies of related activities at twenty higher education institutions Based on a model of entrepreneurship education the analysis addresses curricular and extra curricular teaching as well as the institutional and stakeholder context of delivering entrepreneurship education within higher educational institutions The book offers both insightful entrepreneurship teaching practices and a discussion of potential organizational drivers and barriers Accordingly it provides a valuable resource for researchers instructors and managers of entrepreneurship education alike

Vibrant Architecture Rachel Armstrong, 2015-08-17 This book sets out the conditions under which the need for a new approach to the production of architecture in the twenty first century is established where our homes and cities are facing increasing pressures from environmental challenges that are compromising our lives and well being Vibrant architecture embodies a new kind of architectural design practice that explores how lively materials or vibrant matter may be incorporated into our buildings to confer on them some of the properties of living things such as movement growth sensitivity and self repair The theoretical and practical implications of how this may occur are explored through the application of a new group of materials Characteristically these substances possess some of the properties of living systems but may not have the full status of being truly alive They include forms of chemical artificial life such as dynamic droplets or synthetically produced soils As complex systems they are able to communicate directly with the natural world using a shared language of chemistry and so negotiate their continued survival in a restless world Vibrant architecture may create new opportunities for architectural design practice that venture beyond top down form finding programs by enabling architects to co design in partnership with human and nonhuman collectives which result from the production of post natural landscapes Ultimately vibrant architecture may operate as an ecological platform for human development that augments the liveliness of our planet rather than diminishes it

Cognition, Metacognition, and Culture in STEM Education Yehudit Judy Dori, Zemira R. Mevarech, Dale R. Baker, 2017-12-01 This book addresses the point of intersection between cognition metacognition and culture in learning and teaching Science Technology Engineering and Mathematics STEM We explore theoretical background and cutting edge research about how various forms of cognitive and metacognitive instruction may enhance learning and thinking in STEM classrooms from K 12 to university and in different cultures and countries Over the past several years STEM education research has witnessed rapid growth attracting considerable interest among scholars and educators The book provides an updated collection of studies about cognition metacognition and culture in the four STEM domains The field of research cognition and metacognition in STEM education still suffers from ambiguity in meanings of key concepts that various researchers use This book is organized according to a unique manner Each chapter features one of the four STEM domains and one of the three themes cognition metacognition and culture and defines key

concepts This matrix type organization opens a new path to knowledge in STEM education and facilitates its understanding The discussion at the end of the book integrates these definitions for analyzing and mapping the STEM education research Chapter 4 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

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**Topical Themes in Energy and Resources** Yasumitsu Tanaka, Michael Norton, Yu-You Li, 2015-01-30 This book combines issues several critical ones in the energy field low energy technologies renewable energies such as the hydrogen economy and geothermal energy Moving towards a more sustainable world requires a complete revolution in the way we manage energy and resources However from an academic perspective this theme is so broad that most educators and researchers tend to focus on just one aspect and maintaining the broad viewpoint which is necessary for making strategic judgments becomes difficult Tohoku University addressed this challenge when developing a new education and training program for environmental leaders and brought together the extensive range of expertise available in specific fields into one special course which forms the basis of this book Now in one volume both students and educators can be brought up to date on a wide range of critical issues currently being addressed in the field of energy and resources Chapters on resources include availability for instance rare earth metals extraction and recycling of metals and plastics and technological solutions to specific waste disposal problems In addition broader strategic issues such as limits to growth and the interaction between the economic system and environmental issues are addressed Even though each chapter provides topical data and knowledge from disparate and specialized fields the book is written at a level that is readily understandable by students from all scientific engineering and humanities fields Border Security, 2015 United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs, 2016

**Nanotechnology and Functional Foods** Cristina Sabliov, Hongda Chen, Rickey Yada, 2015-04-21 The continued advancement in the sciences of functional foods and nutraceuticals has clearly established a strong correlation between consumption of bioactives and improved human health and performance However the efficacy and bioavailability of these bioactive ingredients e g omega 3 oils carotenoid antioxidants vitamins and probiotic bacteria in foods often remains a challenge due to their instability in food products and gastrointestinal tract as well as their limited bioavailability In some cases these bioactive ingredients may impart an undesirable organoleptic characteristic to the final product which hinders acceptance by consumers In addressing these challenges development of effective delivery systems is critical to meet the consumer needs for effective bioactives The scientific knowledge behind developing effective delivery of bioactive components into modern and wide ranging food products will be essential to reap their health promoting benefits and to support the sustained growth of the functional foods market Nanotechnology and Functional Foods Effective Delivery of Bioactive Ingredients explores the current data on all aspects of nanoscale packing carrying and delivery mechanisms of bioactives ingredients to functional foods The book

presents various delivery systems including nano emulsions solid lipid nanoparticles and polymeric nano particles their properties and interactions with other food components and fate in the human body Later chapters emphasize the importance of consumers attitude towards nano delivery for the success of the technology and investigate the challenges faced by regulatory agencies to control risks and harmonize approaches worldwide The wide applicability of bioactive delivery systems with the purpose of improving food quality food safety and human health will make this book a worthy reference for a diverse range of readers in industry research and academia

**Sewage Treatment Plants** Katerina Stamatelatou, Konstantinos P. Tsagarakis, 2015-05-15 Sewage Treatment Plants Economic Evaluation of Innovative Technologies for Energy Efficiency aims to show how cost saving can be achieved in sewage treatment plants through implementation of novel energy efficient technologies or modification of the conventional energy demanding treatment facilities towards the concept of energy streamlining The book brings together knowledge from Engineering Economics Utility Management and Practice and helps to provide a better understanding of the real economic value with methodologies and practices about innovative energy technologies and policies in sewage treatment plants

Production Management and Engineering Sciences Milan Majerník, Naqib Daneshjo, Martin Bosák, 2015-11-09 These are the proceedings of the International Conference on Engineering Science and Production Management 16th 17th April 2015 Tatranská Trava High Tatras Mountains Slovak Republic The proceedings contain articles focusing on Production Management Logistics Industrial development sustainable production Planning management and pr

Encyclopedia of Information Systems and Technology - Two Volume Set Phillip A. Laplante, 2015-12-29 Spanning the multi disciplinary scope of information technology the Encyclopedia of Information Systems and Technology draws together comprehensive coverage of the inter related aspects of information systems and technology The topics covered in this encyclopedia encompass internationally recognized bodies of knowledge including those of The IT BOK the Chartered Information Technology Professionals Program the International IT Professional Practice Program British Computer Society the Core Body of Knowledge for IT Professionals Australian Computer Society the International Computer Driving License Foundation European Computer Driving License Foundation and the Guide to the Software Engineering Body of Knowledge Using the universally recognized definitions of IT and information systems from these recognized bodies of knowledge the encyclopedia brings together the information that students practicing professionals researchers and academicians need to keep their knowledge up to date Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

**Handbook on Tunnels and Underground Works** Emilio Bilotta, Renato Casale, Claudio Giulio di Prisco, Salvatore Miliziano, Daniele Peila, Andrea Pigorini, Enrico Maria Pizzarotti, 2022-02-22 The book provides a new global updated thorough clear and practical risk based approach to tunnelling design and construction methods and discusses detailed examples of solutions applied to relevant case histories It is organized in three sequential and integrated volumes Volume 1 Concept

Basic Principles of Design Volume 2 Construction Methods Equipment Tools and Materials Volume 3 Case Histories and Best Practices The book covers all aspects of tunnelling giving useful and practical information about design Volume 1 construction Volume 2 and best practices Volume 3 It provides the following features and benefits updated vision on tunnelling design tools materials and construction balanced mix of theory technology and applied experience different and harmonized points of view from academics professionals and contractors easy consultation in the form of a handbook risk oriented approach to tunnelling problems The tunnelling industry is amazingly widespread and increasingly important all over the world particularly in developing countries The possible audience of the book are engineers geologists designers constructors providers contractors public and private customers and in general technicians involved in the tunnelling and underground works industry It is also a suitable source of information for industry professionals senior undergraduate and graduate students researchers and academics

*Interaction of BCI with the underlying neurological conditions in patients: pros and cons* Jaime Pineda,Aleksandra Vuckovic,Disha Gupta,Christoph Guger,2015-05-05 Nothing provided

*Natural and Constructed Wetlands* Jan Vymazal,2016-08-26 The book extends the knowledge on wetland ecosystem services based on the new research The information combines the achievements gained in carbon sequestration nutrient accumulation macrophyte decomposition wastewater treatment global warming mitigation in constructed as well as natural wetlands across the globe The book presents up to date results of ongoing research and the content of the book could be used by wetland scientists researchers engineers designers regulators decision makers universities teachers landscape engineers and landscape planners as well as by water authorities water regulatory offices or wastewater treatment research institutions

*Advances and Trends in Engineering Sciences and Technologies II* Mohamad Ali,Peter Platko,2016-11-30 These are the proceedings of the 2nd International Conference on Engineering Sciences and Technologies ESaT 2016 held from 29th of June until the 1st of July 2016 in the scenic High Tatras Mountains Tatransk Matliare Slovak Republic After the successful implementation and excellent feedback of the first international conference ESaT 2015 ESaT 2016 was organized under the auspices of the Faculty of Civil Engineering Technical University of Košice Slovak Republic in collaboration with the University of Miskolc Hungary The conference focused on a wide spectrum of topics and subject areas in civil engineering sciences The proceedings bringing new and original advances and trends in various fields of engineering sciences and technologies that accost a wide range of academics scientists researchers and professionals from universities and practice The authors of the articles originate from different countries around the world guaranteeing the importance topicality quality and level of presented results

Frontiers of Sulfur Metabolism in Plant Growth, Development, and Stress Response Stanislav Kopriva,Dibyendu Talukdar,Hideki Takahashi,Rüdiger Hell,Agnieszka Sirko,Stanislaus F. D' Souza,Tulika Talukdar,2016-09-07 Growing plants have a constitutive demand for sulfur to synthesize proteins sulfolipids and other essential sulfur containing molecules for growth and development The uptake and subsequent distribution of sulfate is

regulated in response to demand and environmental cues The importance of sulfate for plant growth and vigor and hence crop yield and nutritional quality for human and animal diets has been clearly recognized The acquisition of sulfur by plants however has become an increasingly important concern for the agriculture due to the decreasing S emissions from industrial sources and the consequent limitation of inputs from atmospheric deposition Molecular characterization involving transcriptomics proteomics and metabolomics in *Arabidopsis thaliana* as well as in major crops revealed that sulfate uptake distribution and assimilation are finely regulated depending on sulfur status and demand and that these regulatory networks are integrated with cell cycle photosynthesis carbohydrate metabolism hormonal signaling uptake and assimilation of other nutrients etc to enable plant growth development and reproduction even under different biotic and abiotic stresses This knowledge can be used to underpin approaches to enhance plant growth and nutritional quality of major food crops around the world Although considerable progress has been made regarding the central role of sulfur metabolism in plant growth development and stress response several frontiers need to be explored to reveal the mechanisms of the cross talk between sulfur metabolism and these processes In this research topic the knowledge on plant sulfur metabolism is reviewed and updated Focus is put not only on molecular mechanisms of control of sulfur metabolism but also on its integration with other vital metabolic events The topic covers 4 major areas of sulfur research sulfate uptake assimilation and metabolism regulation and role in stress response We hope that the topic will promote interaction between researchers with different expertise and thus contribute to a more integrative approach to study sulfur metabolism in plants

Handbook Of Environment And Waste Management - Volume 3: Acid Rain And Greenhouse Gas Pollution Control Yung-tse Hung, Lawrence K Wang, Nazih K Shammam, 2020-05-19 The third volume in the Handbook of Environment and Waste Management Series this book provides a comprehensive compilation of topics at the forefront of many of the technical advances and practices in acid rain and greenhouse gas pollution control Comprising chapters contributed by internationally recognized authorities in the field of environment and waste management on their areas of expertise readers may obtain all necessary technical information on control technologies and methods for management of acid rain and greenhouse gases from this work This handbook is an essential source and one stop reference for professionals and researchers in the areas of acid rain and greenhouse gas pollution control and as a text for advanced undergraduate and graduate courses in these fields

**Smart Cities Policies and Financing** John R. Vacca, 2022-01-19 Smart Cities Policies and Financing Approaches and Solutions is the definitive professional reference for harnessing the full potential of policy making and financial planning in smart cities It covers the effective tools for capturing the dynamic relations between people policies financing and environments and where they are most often useful and effective for all relevant stakeholders The book examines the key role of science technology and innovation STI especially in information and communications technologies in the design development and management of smart cities policies and financing It identifies the problems and offers practical solutions in implementation of smart



infrastructure policies and financing Smart Cities Policies and Financing is also about how the implementation of smart infrastructure projects related to the challenges of the lack of financing and the application of suitable policies underlines the key roles of science technology and innovation STI communities in addressing these challenges and provides key policies and financing that will help guide the design and development of smart cities Brings together experts from academia government and industry to offer state of the art solutions for improving the lives of billions of people in cities around the globe Creates awareness among governments of the various policy tools available such as output based contracting public private partnerships procurement policies long term contracting and targeted research funds in order to promote smart infrastructure implementation and encouraging the use of such tools to shape markets for smart infrastructure and correct market failures Ensures the inclusiveness of smart city projects by adequately addressing the special needs of marginalized sections of society including the elderly persons with disabilities and inhabitants of informal settlements and informal sectors Ensures gender considerations in the design of smart cities and infrastructure through the use of data generated by smart systems to make cities safer and more responsive to the needs of women Demonstrate practical implementation through real life case studies Enhances reader comprehension using learning aids such as hands on exercises checklists chapter summaries review questions and an extensive appendix of additional resources

Ultra-Large Aircraft, 1940-1970 William Patrick Dean, 2018-04-24 In 1962 a unique transport aircraft was built from the parts of 27 Boeing B 377 airliners to provide NASA a means of transporting rocket boosters With an interior the size of a gymnasium The Pregnant Guppy was the first of six enormous cargo planes built by Aero Spacelines and two built by Union de Transport Aeriens More than half a century later the last Super Guppy is still in active service with NASA and the design concept has been applied to next generation transports This comprehensive history of expanded fuselage aircraft begins in the 1940s with the military's need for a long range transport The author examines the development of competing designs by Boeing Convair and Douglas and the many challenges and catastrophic failures Behind the scenes maneuvers of financiers corporate raiders mobsters and other nefarious characters provide an inside look at aviation development from the drawing board to the scrap yard

*Deleuze and the City* Helene Frichot, 2016-01-27 Defining the lives of a majority of the world's population the question of the city has risen to the fore as one the most urgent issues of our time uniting concerns across the terrain of climate policies global financing localised struggles and multi disciplinary research Deleuze and the City rests on a conviction that philosophy is crucially important for advancing knowledge on cities and for allowing us to envisage new forms of urban life toward a more sustainable future It gathers some of the most original thinkers and accomplished scholars in contemporary urban studies showing how Deleuze and Guattari's philosophical project is essential for our thinking through the multi scalar uneven and contested landscapes that constitute the city today Case studies range from the laboratory urbanism of an Austrian ski resort and a sustainable Swedish shopping mall to the urbicidal refurbishments of Haifa

Micronational Dictionary Zabélle

Skye,2024-01-04 The fourth edition of the principal dictionary of English language micronational slang With 402 entries it includes the definitions etymologies notes on usage formations and a pronunciation guide for every entry as well as a special page on the etymologies of micronation revealed for the first time ever and micropatriology

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