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### KEY=GLOBAL - JANIYA BROCK

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#### GLOBAL ADVANCES IN ENGINEERING EDUCATION

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*CRC Press* The engineering profession is at a critical juncture that requires reforming engineering education. The supply of engineers is declining whereas the nature of the demand is changing. Formulating a response to these challenges demands the adoption of new and innovative tools and methods for promoting the expansion of the community while supporting these evolving requirements. Initiatives to entice and retain students are being employed to support growth objectives. Modern technologies are reshaping reform efforts. This book discusses the state of affairs in the field of engineering education and presents practical steps for addressing the challenges in order to march toward a brighter future. Features Covers the latest state of engineering education in the North America, Europe, Middle East, North Africa, and Far East Asia Discusses advances in science, technology, engineering, and mathematics and community engagement Outlines applications of digital technologies to enhance learning Provides advances in remote and online instructions for engineering education Presents discussions on innovation, leadership, and ethics

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#### HANDBOOK OF RESEARCH ON ADVANCEMENTS IN MANUFACTURING, MATERIALS, AND MECHANICAL ENGINEERING

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*IGI Global* Production, new materials development, and mechanics are the central subjects of modern industry and advanced science. With a very broad reach across several different disciplines, selecting the most forward-thinking research to review can be a hefty task, especially for study in niche applications that receive little coverage. For those subjects, collecting the research available is of utmost importance. The Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering is an essential reference source that examines emerging obstacles in these fields of engineering and the methods and tools used to find solutions. Featuring coverage of a broad range of topics including fabricating procedures, automated control, and material selection, this book is ideally designed for academics; tribology and materials researchers; mechanical, physics, and materials engineers; professionals in related industries; scientists; and students.

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#### PRODUCT LIFECYCLE MANAGEMENT FOR A GLOBAL MARKET

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#### 11TH IFIP WG 5.1 INTERNATIONAL CONFERENCE, PLM 2014, YOKOHAMA, JAPAN, JULY 7-9, 2014, REVISED SELECTED PAPERS

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*Springer* This book constitutes the refereed post-proceedings of the 11th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2014, held in Yokohama, Japan, in July 2014. The 51 full papers presented were carefully reviewed and selected from 77 submissions. They are organized in the following topical sections: BIM operations, maintenance, and renovation; BIM concepts and lifecycle management; design and education; naval engineering and shipbuilding; aeronautical and automotive engineering; industry and consumer products; interoperability, integration, configuration, systems engineering; change management and maturity; knowledge engineering; knowledge management; service and manufacturing; and new PLM.

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#### GLOBAL LOGISTICS MANAGEMENT

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*CRC Press* Global Logistics Management focuses on the evolution of logistics in the last two decades, and highlights recent developments from a worldwide perspective. The book details a wide range of application-oriented studies, from metropolitan bus routing problems to relief logistics, and introduces the state of the art on some classical applications. The book addresses typical logistic problems, most specifically the vehicle routing problem (VRP), followed by a series of analyses and discussions on various logistics problems plaguing airline and marine systems. The text addresses problems encountered in continuous space, and discusses the issue of consolidation, scheduling, and replenishment decisions together with routing. It proposes a methodology that supports decision making at a tactical and operational level associated with daily inventory management, and also examines the three-echelon logistic network. This material provides numerous examples and additional topics that include: An analysis for the airline industry and a novel approach for airline logistics including fare pricing and seat inventory control The berth-crane allocation problem in container terminals A marine system logistics application Ice navigation problems and factors that affect ice navigation Pharmaceutical warehouse route design problems An application in healthcare logistics in which medical suppliers are evaluated through a fuzzy linguistic representation model A real data-driven simulation model that outputs a new shuttle system A model that integrates routing and batching problems Joint replenishment and transportation problems Global Logistics Management clearly illustrates logistic problems encountered in many different application areas, and provides you with the latest advances in classical applications.

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#### MODELING AND OPTIMIZATION OF SOLAR THERMAL SYSTEMS: EMERGING RESEARCH AND OPPORTUNITIES

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#### EMERGING RESEARCH AND OPPORTUNITIES

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*IGI Global* In recent years, scientists and researchers have been continually searching for efficient and effective ways to harness solar energy for heat and power production. The development of solar technologies and thermal systems are a prevalent area of study, as they represent a vital step in fully optimizing the potential of solar energy. Unfortunately, research is still lacking on the development and application of these solar thermal systems. Modeling and Optimization of Solar Thermal Systems: Emerging Research and Opportunities provides emerging research exploring the theoretical and practical aspects of optimizing the performance of solar thermal technologies using multicriteria decision-making techniques. Featuring coverage on a broad range of topics such as parabolic trough collectors, hybrid solar energy, and thermal technology, this book is ideally designed for practitioners, engineers, academicians, researchers, students, industry professionals, and educators seeking current research on modern modeling methods of solar thermal systems.

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#### THE EVOLUTION OF THE GLOBAL TERRORIST THREAT

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#### FROM 9/11 TO OSAMA BIN LADEN'S DEATH

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*Columbia University Press* Examining major terrorist acts and campaigns undertaken in the decade following September 11, 2001, internationally recognized scholars study the involvement of global terrorist leaders and organizations in these incidents and the planning, organization, execution, recruitment, and training that went into them. Their work captures the changing character of al-Qaeda and its affiliates since the invasions of Afghanistan and Iraq and the sophisticated elements that, despite the West's best counterterrorism efforts, continue to exert substantial direction over jihadist terrorist operations. Through case studies of terrorist acts and offensives occurring both in and outside the West, the volume's contributors investigate al-Qaeda and other related entities as they adapted to the strategies of Operation Enduring Freedom and subsequent U.S.-led global counterterrorism programs. They explore whether Osama bin Laden was indeed reduced to a mere figurehead before his death or continued to influence al-Qaeda's global activities. Did al-Qaeda become a loose collection of individuals and ideas following its expulsion from Afghanistan, or was it reborn as a transnational terrorist structure powered by a well-articulated ideology? What is the preeminent terrorist threat we face today, and what will it look like in the future? This anthology pinpoints the critical patterns and strategies that will inform counterterrorism in the coming decades.

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#### QATAR 2022

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*The Business Year* The Business Year has charted the course of the Qatari economy for the best part of a decade, including every development since it won the right to host the 2022 FIFA World Cup. As the first Middle Eastern country to host the tournament, Qatar has focused much effort on making sure it not only puts on a good show, but that its legacy extends well into the future. It is in this atmosphere that we carried out research for this publication. The Business Year: Qatar 2022, World Cup Special Edition.

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#### HUMANIZING CITIES THROUGH CAR-FREE CITY DEVELOPMENT AND TRANSFORMATION

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*IGI Global* The heavy dependency on private cars has shaped the design of cities. While offering fast, comfortable, and convenient commutes, cars have become the most popular method of transportation, but are also a health crisis due to the toxic emissions they release into the atmosphere as well as the high death toll from traffic accidents. For these reasons, there is a need to minimize the use of cars within cities in favor of greener and humanized urban design that would improve the quality of life and reduce the global threat of climate change. Humanizing Cities Through Car-Free City Development and Transformation is an essential publication that explores the concepts of car-free cities and city humanization as possible solutions to reduce the deteriorating effect on the environment and the community. The publication discusses the urban initiative to implement pedestrianization and humanization of cities and public spaces to promote the concept of car-free living. Featuring coverage on a wide range of topics including city humanization, smart mobility, and urban policies, this book is ideally designed for urban planners, environmentalists, government officials, policymakers, architects, transportation authorities, researchers, academicians, and students.

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#### ELECTRIC VEHICLES AND THE FUTURE OF ENERGY EFFICIENT TRANSPORTATION

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*IGI Global* The electric vehicle market has been gradually gaining prominence in the world due to the rise in pollution levels caused by traditional IC engine-based vehicles. The advantages of electric vehicles are multi-pronged in terms of cost, energy efficiency, and environmental impact. The running and maintenance cost are considerably less than traditional models. The harmful exhaust emissions are reduced, besides the greenhouse gas emissions, when the electric vehicle is supplied from a renewable energy source. However, apart from some Western nations, many developing and underdeveloped countries have yet to take up this initiative. This lack of enthusiasm has been primarily attributed to the capital investment required for charging infrastructure and the slow transition of energy generation from the fossil fuel to the renewable energy format. Currently, there are very few charging stations, and the construction of the same needs to be ramped up to supplement the growth of electric vehicles. Grid integration issues also crop up when the electric vehicle is used to either do supply addition to or draw power from the grid. These problems need to be fixed at all the levels to enhance the future of energy efficient transportation. Electric Vehicles and the Future of Energy Efficient Transportation explores the growth and adoption of electric vehicles for the purpose of sustainable

transportation and presents a critical analysis in terms of the economics, technology, and environmental perspectives of electric vehicles. The chapters cover the benefits and limitations of electric vehicles, techno-economic feasibility of the technologies being developed, and the impact this has on society. Specific points of discussion include electric vehicle architecture, wireless power transfer, battery management, and renewable resources. This book is of interest for individuals in the automotive sector and allied industries, policymakers, practitioners, engineers, technicians, researchers, academicians, and students looking for updated information on the technology, economics, policy, and environmental aspects of electric vehicles.

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## ENGINEERING AND TECHNOLOGY TALENT FOR INNOVATION AND KNOWLEDGE-BASED ECONOMIES

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### COMPETENCIES, LEADERSHIP, AND A ROADMAP FOR IMPLEMENTATION

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*Springer* This book introduces and analyzes the models for engineering leadership and competency skills, as well as frameworks for industry-academia collaboration and is appropriate for students, researchers, and professionals interested in continuous professional development. The authors look at the organizational structures of engineering education in knowledge-based economies and examine the role of innovation and how it is encouraged in schools. It also provides a methodological framework and toolkit for investigating the needs of engineering and technology skills in national contexts. A detailed empirical case study is included that examines the leadership competencies that are needed in knowledge-based economies and how one university encourages these in their program. The book concludes with conceptual modeling and proposals of specific organizational structures for implementation in engineering schools, in order to enable the development of necessary skills for future engineering graduates.

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### KNOWLEDGE-INTENSIVE ECONOMIES AND OPPORTUNITIES FOR SOCIAL, ORGANIZATIONAL, AND TECHNOLOGICAL GROWTH

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*IGI Global* The modern world is developing at a pace where few can thoroughly keep track of its progress. More advancements in technology, evolving standards of education, and ongoing cultural and societal developments are leading to a need for improved pathways of knowledge discovery and dissemination. Knowledge-Intensive Economies and Opportunities for Social, Organizational, and Technological Growth provides emerging research exploring how academic research can represent both a bold response to the problems society faces today and a source of alternative solutions to those problems. This publication is derived from the basic understanding that education plays the role of the key enabler in the process of navigating these contemporary challenges. Featuring coverage on a broad range of topics such as e-service exploration, progressive online learning in urban areas, and advances in multimedia sharing, this book is ideally designed for consultants, academics, industry professionals, policymakers, politicians, and government officials seeking current research on the impact of information technology and the knowledge-based era.

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### RECENT TRENDS ON ELECTROMAGNETIC ENVIRONMENTAL EFFECTS FOR AERONAUTICS AND SPACE APPLICATIONS

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*IGI Global* Electromagnetic compatibility and regulatory compliance issues are subjects of great importance in electronics engineering. Avoiding problems regarding an electronic system's operation, while always important, is especially critical in space missions and satellite structures. Many problems can be traced to EM field disturbances as interference from unintended sources and other electromagnetic phenomena. As a result, stringent requirements are to be met in terms of electromagnetic emissions levels. The inclusion of this electromagnetic environment in the design of a multimillion mission can lead to a system that is able to withstand whatever challenge the environment throws at it. Failure to do so may lead to important data corruption or loss, destruction of expensive instruments, waste of resources, and even a total mission failure. Research in this area focuses on the studying of the applications of electromagnetic compatibility and electromagnetic interference in the space industry. Recent Trends on Electromagnetic Environmental Effects for Aeronautics and Space Applications will provide relevant theoretical frameworks and the latest empirical research findings in electromagnetic compatibility and electromagnetic interference (EMC/EMI) for the aerospace industry. This book examines all the necessary information for all matters that can possibly affect the system design of a spacecraft and can be a useful reference to space system engineers and more. While highlighting topics such as artificial intelligence, electromagnetic testing, environmental shielding, and EMC modelling techniques, this book is ideal for professionals, spacecraft designers, science and data processing managers, electrical and mechanical engineers, EMC testing engineers, and researchers working in the aerospace industry along with practitioners, researchers, academicians, and students looking for necessary information for all the matters that can possibly affect the system design of a spacecraft.

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### MECHANICAL ENGINEERING (2019 SSC JE)

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YOUTH COMPETITION TIMES 2019 SSC JE MECHANICAL ENGINEERING SOLVED PAPERS

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### GENETIC ALGORITHMS AND REMOTE SENSING TECHNOLOGY FOR TRACKING FLIGHT DEBRIS

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*IGI Global* The tragic disappearance of the Malaysia Airlines Flight MH370 has created a need for research in the areas of aircraft transportation, and specifically flight debris tracking. As researchers and scientists continue to search for novel technologies that will assist with aeronautical detection, two modes have emerged as possible solutions. The use of remote sensing technology and genetic algorithms are techniques that scientists are beginning to use to improve aircraft trajectory models and to locate downed aircraft. Genetic Algorithms and Remote Sensing Technology for Tracking Flight Debris is an essential reference source that discusses developing tracking methods using advanced algorithms as well as satellite technologies. Featuring research on topics such as wave pattern modeling, microwave satellite data, and trajectory movement, this book is ideally designed for practitioners, researchers, oceanographers, aerospace engineers, scientists, educators, developers, analysts, and students seeking coverage on advancements in sensor and tracking technology in regard to flight dynamics.

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### THERMODYNAMIC ANALYSIS AND OPTIMIZATION OF GEOTHERMAL POWER PLANTS

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*Elsevier* Thermodynamic Analysis and Optimization of Geothermal Power Plants guides researchers and engineers on the analysis and optimization of geothermal power plants through conventional and innovative methods. Coverage encompasses the fundamentals, thermodynamic analysis, and optimization of geothermal power plants. Advanced thermodynamic analysis tools such as exergy analysis, thermoeconomic analysis, and several thermodynamic optimization methods are covered in-depth for different configurations of geothermal power plants through case studies. Interdisciplinary research with relevant economic and environmental dimensions are addressed in many of the studies, along with optimization studies aimed at better efficiency, lower cost and lower environmental impact. Addresses the complexities of thermodynamic assessment in almost all operational plant configurations, including solar-geothermal and multi-generation power plants Includes an exemplary range of case studies, from basic to integrated Provides modern optimization methods, including entropy-based, exergoeconomic, artificial neural networks and multi-objective particle swarm Covers environmental impact considerations and integration with renewable energy systems

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### ACING ADMISSIONS

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### THE INTERNATIONAL STUDENT'S GUIDE TO US UNDERGRADUATE COLLEGE APPLICATIONS

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*Notion Press* Acing Admissions is the only guide you need to help navigate the US undergraduate studies application process. Written with the international student in mind, Acing Admissions outlines frameworks for developing a college list, provides a step-by-step guide to submitting your application and describes the range of financial aid options available to international students. The book also gives detailed timelines with checkpoints for students who want to start planning as early as 8th grade. Practical advice is conveyed through anecdotes and case studies featuring real applicant stories, based on the authors' years of experience running an education consulting practice for students and families living outside the US.

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### MAJOR COMPANIES OF THE ARAB WORLD 1988

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*Springer Science & Business Media* This book represents the twelfth edition of the IMPORTANT leading reference work MAJOR COMPANIES OF All company entries have been entered in MAJOR THE ARAB WORLD. COMPANIES OF THE ARAB WORLD absolutely free This volume has been completely updated of charge, thus ensuring a totally objective approach compared to last year's edition. Many new to the information given. companies have also been included. Whilst the publishers have made every effort to The publishers remain confident that MAJOR ensure that the information in this book was correct COMPANIES OF THE ARAB WORLD contains more at the time of going to press, no responsibility or information on the major industrial and commercial liability can be accepted for any errors or omissions, companies than any other work. The information in or for the consequences thereof. the book was submitted mostly by the companies themselves, completely free of charge. To all those ABOUT GRAHAM & TROTMAN L TD companies, which assisted us in our research Graham & Trotman Ltd, a member of the Kluwer operation, we express grateful thanks. To all those Academic Publishers Group, is a publishing individuals who gave us help as well, we are similarly organisation specialising in the research and very grateful. publication of business and technical information for industry and commerce in many parts of the Definition of a major company world.

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### THE OIL & GAS YEAR QATAR 2010

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wildcat publishing

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### INTELLIGENT VEHICLES

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*MDPI* This book presents the results of the successful Sensors Special Issue on Intelligent Vehicles that received submissions between March 2019 and May 2020. The Guest Editors of this Special Issue are Dr. David Fernández-Llorca, Dr. Ignacio Parra-Alonso, Dr. Iván García-Daza and Dr. Noelia Parra-Alonso, all from the Computer Engineering Department at the University of Alcalá (Madrid, Spain). A total of 32 manuscripts were finally accepted between 2019 and 2020, presented by top researchers from all over the world. The reader will find a well-representative set of current research and developments related to sensors and sensing for intelligent vehicles. The topics of the published manuscripts can be grouped into seven main categories: (1) assistance systems and automatic vehicle operation, (2) vehicle positioning and localization, (3) fault diagnosis and fail-x systems, (4) perception and scene understanding, (5) smart regenerative braking systems for electric vehicles, (6) driver behavior modeling and (7) intelligent sensing. We, the Guest Editors, hope that the readers will find this book to contain interesting papers for their research, papers that they will enjoy reading as much as we have enjoyed organizing this Special Issue

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### SOLAR ENERGY UPDATE

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### ROUTLEDGE HANDBOOK ON MIDDLE EAST SECURITY

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*Routledge* Routledge Handbook on Middle East Security provides the first comprehensive look at Middle East security issues that includes both traditional and emerging security threats. Taking a broad perspective on security, the volume offers both analysis grounded in the 'hard' military and state security discourse but also delves into the 'soft' aspects of security employing a human security

perspective. As such the volume addresses imminent challenges to security, such as the ones relating directly to the war in Syria, but also the long-term challenges. The traditional security problems, which are deep-seated, are at risk of being exacerbated also by a lack of focus on emerging vulnerabilities in the region. While taking as a point of departure the prevalent security discourse, the volume also goes beyond the traditional focus on military or state security and consider non-traditional security challenges. This book provides a state-of-the-art review of research on the key challenges for security in the Middle East; it will be a key resource for students and scholars interested in Security Studies, International Relations, Political Science and Middle Eastern Studies.

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### THE BUSINESS YEAR: QATAR 2021

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*The Business Year 2020* will forever be remembered as the year that the COVID-19 pandemic mercilessly hit the world, leaving a trail of loss both human and economic. Qatar has managed to limit its economic decline to a reasonable 2.5%, emerging as the top performer in the GCC. The IMF also expects the economy to expand 2.7% in 2021. Resilience and diversification have been buzzwords in Qatar for some time, yet never have they taken on so much meaning. This 184-page publication aims to provide a platform for the country's decision makers at a time of global uncertainty and act as a guide for investors looking seriously at the Gulf economy. It covers sports, finance, energy, industry, transport, ICT and media, construction and real estate, food security, health and education, tourism, and retail.

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### MAJOR COMPANIES OF THE ARAB WORLD 1993/94

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*Springer Science & Business Media* This book represents the seventeenth edition of the leading IMPORTANT reference work MAJOR COMPANIES OF THE ARAB WORLD. All company entries have been entered in MAJOR COMPANIES OF THE ARAB WORLD absolutely free of This volume has been completely updated compared to last charge, thus ensuring a totally objective approach to the year's edition. Many new companies have also been included information given. this year. Whilst the publishers have made every effort to ensure that the information in this book was correct at the time of press, no The publishers remain confident that MAJOR COMPANIES responsibility or liability can be accepted for any errors or OF THE ARAB WORLD contains more information on the omissions, or for the consequences thereof. major industrial and commercial companies than any other work. The information in the book was submitted mostly by the ABOUT GRAHAM & TROTMAN LTD companies themselves, completely free of charge. To all those Graham & Trotman Ltd, a member of the Kluwer Academic companies, which assisted us in our research operation, we Publishers Group, is a publishing organisation specialising in express grateful thanks. To all those individuals who gave us the research and publication of business and technical help as well, we are similarly very grateful. information for industry and commerce in many parts of the world.

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### STROKE IN ELDERLY: CURRENT STATUS AND FUTURE DIRECTIONS

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*Frontiers Media SA*

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### MAJOR COMPANIES OF THE ARAB WORLD 1991/92

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*Springer Science & Business Media* This book represents the fifteenth edition of the leading IMPORTANT reference work MAJOR COMPANIES OF THE ARAB WORLD. All company entries have been entered in MAJOR COMPANIES OF THE ARAB WORLD absolutely free of This volume has been completely updated compared to last charge, thus ensuring a totally objective approach to the year's edition (with the exception of Iraq due to the information given. circumstances of war). Many new companies have also been Whilst the publishers have made every effort to ensure that the included this year. information in this book was correct at the time of press, no responsibility or liability can be accepted for any errors or This year, the Kuwaiti section contains an appendix giving omissions, or for the consequences thereof. addresses for relocated Kuwaiti companies (with telephonic telefax numbers where possible). This appendix allows the ABOUT GRAHAM & TROTMAN LTD reader to cross-refer the Kuwaiti company to its relocation Graham & Trotman Ltd, a member of the Kluwer Academic entry in the relevant Arab country or to contact them direct if Publishers Group, is a publishing organisation specialising in they have relocated to a non-Arab country. the research and publication of business and technical information for industry and commerce in many parts of the The publishers remain confident that MAJOR COMPANIES world.

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### THE REPORT: QATAR 2014

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*Oxford Business Group* 2013 saw the transition of power from the former Emir, Sheikh Hamad bin Khalifa Al Thani, to Sheikh Tamim bin Hamad Al Thani, his fourth son and second son with Sheikha Moza bint Nasser, a move unprecedented elsewhere in the Gulf but not unexpected in Qatar. With sustained, long-term economic growth, the highest per capita income in the world, a stable and well-capitalised banking sector, a sovereign wealth fund that is of true global significance and one of the largest reserves of natural gas just offshore, Qatar today has many advantages. It is clear that the country is in a strong position from which to continue its robust economic performance, and the years ahead will see a vast construction drive, in line with the principles of Qatar National Vision 2030 and catalysed by preparations for the 2022 FIFA World Cup. Oil and gas accounted for around 51.5% of Qatar's economic output in 2013, while developing downstream facilities that add value to energy by-products, for example, has helped build a portfolio of petrochemicals, chemicals and fertiliser companies and looks set to see Qatar's economic strength continue. With more than \$222bn of projects in the pipeline, the construction sector's growth has been forecast at 15% for 2014, while spending on infrastructure is set to reach \$150bn in the run-up to the 2022 FIFA World Cup. Against this backdrop, Qatar looks set to continue offering a wide variety of opportunities for foreign investors.

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### MAJOR COMPANIES OF THE ARAB WORLD 1990/91

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*Springer Science & Business Media* This book represents the fourteenth edition of the IMPORTANT leading reference work MAJOR COMPANIES OF All company entries have been entered in MAJOR THE ARAB WORLD;L\_ COMPANIES OF THE ARAB WORLD absolutely free This volume has been completely updated of charge, thus ensuring a totally objective approach compared to last year's edition. Many new to the information given. companies have also been included. Whilst the publishers have made every effort to The publishers remain confident that MAJOR ensure that the information in this book was correct COMPANIES OF THE ARAB WORLD contains more at the time of going to press, no responsibility or information on the major industrial and commercial liability can be accepted for any errors or omissions, companies than any other work. The information in or for the consequences thereof the book was submitted mostly by the companies themselves, completely free of charge. To all those ABOUT GRAHAM & TROTMAN L TO companies, which assisted us in our research Graham & Trotman Ltd, a member of the Kluwer operation, we express grateful thanks. To all those Academic Publishers Group, is a publishing individuals who gave us help as well, we are similarly organisation specialising in the research and very grateful. publication of business and technical information ,for industry and commerce in many parts of the Definition of a major company world.

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### PROCEEDINGS OF THE 3RD INTERNATIONAL GAS PROCESSING SYMPOSIUM

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#### QATAR, MARCH 2012

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*Elsevier* Natural gas continues to be the fuel of choice for power generation and feedstock for a range of petrochemical industries. This trend is driven by environmental, economic and supply considerations with a balance clearly tilting in favor of natural gas as both fuel and feedstock. Despite the recent global economic uncertainty, the oil and gas industry is expected to continue its growth globally, especially in emerging economies. The expansion in LNG capacity beyond 2011 and 2012 coupled with recently launched and on-stream GTL plants poses real technological and environmental challenges. These important developments coupled with a global concern on green house gas emissions provide a fresh impetus to engage in new and more focused research activities aimed at mitigating or resolving the challenges facing the industry. Academic researchers and plant engineers in the gas processing industry will benefit from the state of the art papers published in this collection that cover natural gas utilization, sustainability and excellence in gas processing. Provides state-of-the-art contributions in the area of gas processing Covers solutions to technical and environmental problems Input from academia and industry

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### INNOVATIONS IN MECHANICAL ENGINEERING

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#### SELECT PROCEEDINGS OF ICIME 2021

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*Springer Nature* This book comprises select proceedings of the International Conference on Innovations in Mechanical Engineering (ICIME 2021). It presents innovative ideas and new findings in the field of mechanical engineering. Various topics covered in this book are aerospace engineering, automobile engineering, thermal engineering, renewable energy sources, bio-mechanics, fluid mechanics, MEMS, mechatronics, robotics, CAD/CAM, CAE, CFD, design and optimization, tribology, materials engineering and metallurgy, mimics, surface engineering, nanotechnology, polymer science, manufacturing, production management, industrial engineering and rapid prototyping. This book will be useful for the students, researchers and professionals working in the various areas of mechanical engineering.

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### HANDBOOK OF RESEARCH ON RECENT DEVELOPMENTS IN MATERIALS SCIENCE AND CORROSION ENGINEERING EDUCATION

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*IGI Global* The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering. As a direct result of these developments, new trends in Materials Science and Engineering (MSE) pedagogy have emerged that require attention. The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs. Focusing on the application of instructional strategies, pedagogical frameworks, and career preparation techniques, this book is an essential reference source for academicians, engineering practitioners, researchers, and industry professionals interested in emerging and future trends in MSE training and education.

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### A DESIGN THINKING, SYSTEMS APPROACH TO WELL-BEING WITHIN EDUCATION AND PRACTICE

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#### PROCEEDINGS OF A WORKSHOP

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*National Academies Press* The mental health and well-being of health professionals is a topic that is broad, exceptionally relevant, and urgent to address. It is both a local and a global issue, and affects professionals in all stages of their careers. To explore this topic, the Global Forum on Innovation in Health Professional Education held a 1.5 day workshop. This publication summarizes the presentations and discussions from the workshop.

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### PROCEEDINGS OF THE 4TH INTERNATIONAL GAS PROCESSING SYMPOSIUM

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#### QATAR, OCTOBER 2014

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*Elsevier* Natural gas continues to be the fuel of choice for power generation and feedstock for a range of petrochemical industries. This trend is driven by environmental, economic and supply

considerations with a balance clearly tilting in favor of natural gas as both fuel and feedstock. Despite the recent global economic uncertainty, the oil and gas industry is expected to continue its growth globally, especially in emerging economies. The expansion in LNG capacity coupled with recently launched and on-stream GTL plants poses real technological and environmental challenges. These important developments coupled with a global concern on green house gas emissions provide a fresh impetus to engage in new and more focused research activities aimed at mitigating or resolving the challenges facing the industry. Academic researchers and plant engineers in the gas processing industry will benefit from the state of the art papers published in this collection that cover natural gas utilization, sustainability and excellence in gas processing. Provides state-of-the-art contributions in the area of gas processing Covers solutions to technical and environmental problems Input from academia and industry

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#### **ENGINEERING ETHICS FOR A GLOBALIZED WORLD**

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*Springer* This volume identifies, discusses and addresses the wide array of ethical issues that have emerged for engineers due to the rise of a global economy. To date, there has been no systematic treatment of the particular challenges globalization poses for engineering ethics standards and education. This volume concentrates on precisely this challenge. Scholars and practitioners from diverse national and professional backgrounds discuss the ethical issues emerging from the inherent symbiotic relationship between the engineering profession and globalization. Through their discussions a deeper and more complete understanding of the precise ways in which globalization impacts the formulation and justification of ethical standards in engineering as well as the curriculum and pedagogy of engineering ethics education emerges. The world today is witnessing an unprecedented demand for engineers and other science and technology professionals with advanced degrees due to both the off-shoring of western jobs and the rapid development of non-Western countries. The current flow of technology and professionals is from the West to the rest of the world. Professional practices followed by Western (or Western-trained) engineers are often based on presuppositions which can be in fundamental disagreement with the viewpoints of non-Westerners. A successful engineering solution cannot be simply technically sound, but also must account for cultural, social and religious constraints. For these reasons, existing Western standards cannot simply be exported to other countries. Divided into two parts, Part I of the volume provides an overview of particular dimensions of globalization and the criteria that an adequate engineering ethics framework must satisfy in a globalized world. Part II of the volume considers pedagogical challenges and aims in engineering ethics education that is global in character.

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#### **ADVANCES IN MATERIALS AND PAVEMENT PERFORMANCE PREDICTION II**

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#### **CONTRIBUTIONS TO THE 2ND INTERNATIONAL CONFERENCE ON ADVANCES IN MATERIALS AND PAVEMENT PERFORMANCE PREDICTION (AM3P 2020), 27-29 MAY, 2020, SAN ANTONIO, TX, USA**

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*CRC Press* Inspired from the legacy of the previous four 3DFEM conferences held in Delft and Athens as well as the successful 2018 AM3P conference held in Doha, the 2020 AM3P conference continues the pavement mechanics theme including pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance. The AM3P conference is organized by the Standing International Advisory Committee (SIAC), at the time of this publication chaired by Professors Tom Scarpas, Eyad Masad, and Amit Bhasin. *Advances in Materials and Pavement Performance Prediction II* includes over 111 papers presented at the 2020 AM3P Conference. The technical topics covered include: - rigid pavements - pavement geotechnics - statistical and data tools in pavement engineering - pavement structures - asphalt mixtures - asphalt binders The book will be invaluable to academics and engineers involved or interested in pavement engineering, pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance.

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#### **MAJOR COMPANIES OF THE ARAB WORLD, 1995**

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#### **CARBON NITRIDE NANOSTRUCTURES FOR SUSTAINABLE ENERGY PRODUCTION AND ENVIRONMENTAL REMEDIATION**

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*Royal Society of Chemistry* Beneficial properties of graphitic carbon nitride (gCN) have been discovered in recent years during the promotion of its visible-light-driven photocatalytic activity for water splitting. Applications of gCN have flourished in such fields as renewable energy production and environmental remediation, while gCNs have been explored to serve as electrocatalysts, electronic and photoelectronic devices, non-volatile memory devices, anodes in lithium-ion batteries, and platinum supports in polymer electrolyte fuel cells. This book covers recent advances in the rational design and characterization of gCN nanostructures for energy and environmental remediation, and discusses achievements in fabrication approaches of gCN nanostructures using various chemical and physical approaches. It highlights recent advances in the theoretical and experimental development of novel multidimensional nanoarchitectonics of gCNs along with insight into catalytic energy production, energy storage, and environmental remediation. Practical applications and utilization of gCN based devices are also discussed. With contributions from leading global researchers, this title will appeal to graduate students and researchers in nanoscience, chemistry, chemical engineering and materials science who are interested in developing new gCN materials or devices.

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#### **22ND EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING**

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*Elsevier* Computer aided process engineering (CAPE) plays a key design and operations role in the process industries. This conference features presentations by CAPE specialists and addresses strategic planning, supply chain issues and the increasingly important area of sustainability audits. Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development: environmental, social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals. Contributions from the international community of researchers and engineers using computing-based methods in process engineering Review of the latest developments in process systems engineering Emphasis on a systems approach in tackling industrial and societal grand challenges

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#### **THE OIL & GAS YEAR QATAR 2019**

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*The Oil & Gas Year Limited* The Oil & Gas Year and the Qatar Chamber of Commerce and Industry partnered to produce the TOGY Qatar 2019 edition, highlighting Qatar's attractive business environment, the country's resilience and QP's ambitious local and international expansion plans, and covering major projects and services in the industry. This edition includes insights from Qatar's most influential players and provides in-depth articles that offer market intelligence on the country's entire value chain, from exploration and production to midstream, downstream and oilfield services, as well as the engineering and construction, marine and logistics, and others sectors. The edition also provides detailed and exclusive coverage of dynamic developments such as the North Field Expansion project as well as the Hamad Port. This edition of The Oil & Gas Year's Qatar series aims to raise the global profile of Qatar's hydrocarbons and related industries, showcase its industries accomplishments, and promote its future development plans.

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#### **CLEANER COMBUSTION**

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*MDPI* This volume provides unique views of combustion from many technical and international research perspectives. Combustion science is often considered from its negative environmental impact, where we find, instead, that energy release from fuels of all kinds have promoted human endeavor throughout history. This volume tries to capture some of these positive features by showing a range of work exami