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ICEER2014-McMaster Digest-Mohamed Bakr 2014-11-18 International Conference on Engineering Education and Research Proceedings etc2014-The European Society of Telemetry 2014-11-12 The European Telemetry and Test Conference etc2014 took place in Nuremberg in June 2nd-5th, 2014. Over 50 Technical Papers were presented in 10 Technical Sessions, highlighting the most recent innovations in methods, systems, and instrumentation from industry, researchers and laboratories all around the world. More than 50 companies attended the etc2014 exhibition and offered unique opportunities for technical discussions. Within the etc-Village, they presented numerous innovations, among others around new sensors and data acquisition architectures, Ethernet video solutions, C-band telemetry. This international success has been confirmed by the feedback of the participants: more than 85% were satisfied about the information offered in the Technical Sessions and the etc2014 Exhibition, the organisation and the location of the Conference. Organised for the first time in cooperation with SENSOR + TEST, the internationally leading trade fair for sensors, measuring, and testing technology, the new form of etc2014 opened the door to further 500+ exhibitors; potentially interesting for the daily and future applications of the telemetry professionals.

DMRC Exam for Jr. Engineer (Electrical) Guide + Workbook (10 Practice Sets) Paper I & II 2nd edition-Disha Experts 2017-09-01 The THOROUGHLY REVISED & UPDATED 2nd edition of the book "DMRC Exam Paper 1 & 2 for Jr. Engineer (Electrical) Guide + Workbook (10 Practice Sets) 2nd edition" has been specially designed to help students in the latest DMRC exam being conducted by DMRC. The book contains Quick Concept Review of the General Ability Test in 2 parts - Aptitude and Electrical Engineering. The Quick Concept Review is followed by a short exercise with solutions. The book also provides 2 Solved past papers of 2012 & 2013 to guide you about the pattern and the level of questions asked. The book provides 10 Practice Sets (Paper 1 and 2) as per the LATEST pattern of DMRC Electrical Engineering exam. The solutions of the 10 Practice Sets are provided immediately at the end of each Set. The questions have been carefully selected so as to give you a real feel of the exam. Each Practice Set is classified into 2 papers. Paper 1 is an Objective Test containing General Ability section and Electrical Engineering section. The General Ability section has 60 questions on General Awareness, Logical Ability and Quantitative Aptitude. The Electrical Engineering section has 60 questions on the knowledge of the Electrical Engineering discipline/trade. The Paper II consists of an objective test of English language of 60 questions. Two fully solved past papers of 2012 & 2013 have been provided It is our confidence that if you attempt each of the tests with sincerity your score must improve at least by 10-15%. The book also provides Response Sheet for each objective test. Post each test you must do a Post-Test Analysis with the help of the Test Analysis & Feedback Sheet which has been provided for each Set.

Veterans and Agent Orange-National Academies of Sciences, Engineering, and Medicine 2016-04-29 From 1962 to 1971, the US military sprayed herbicides over Vietnam to strip the thick jungle canopy that could conceal opposition forces, to destroy crops that those forces might depend on, and to clear tall grasses and bushes from the perimeters of US base camps and outlying fire-support bases. Mixtures of 2,4-dichlorophenoxyacetic acid (2,4-D), 2,4,5-trichlorophenoxyacetic acid (2,4,5-T), picloram, and cacodylic acid made up the bulk of the herbicides sprayed. The main chemical mixture sprayed was Agent Orange, a 50:50 mixture of 2,4-D and 2,4,5-T. At the time of the spraying, 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), the most toxic form of dioxin, was an unintended contaminant generated during the production of 2,4,5-T and so was present in Agent Orange and some other formulations sprayed in Vietnam. Because of complaints from returning Vietnam veterans about their own health and that of their children combined with emerging toxicologic evidence of adverse effects of phenoxy herbicides and TCDD, the National Academy of Sciences was asked to perform a comprehensive evaluation of scientific and medical information regarding the health effects of exposure to Agent Orange, other herbicides used in Vietnam, and the various components of those herbicides, including TCDD. Updated evaluations were conducted every two years to review newly available literature and draw conclusions from the overall evidence. Veterans and Agent Orange: Update 2014 is a cumulative report of the series thus far.

The Broken Ladder-Anirudh Krishna 2017-08-17 This book explains the paradox of India's rapid growth and widespread poverty by looking at hundreds of life stories and the latest research.

ICPMG2014 - Physical Modelling in Geotechnics-Christophe Gaudin 2019-01-08 The 8th International Conference on Physical Modelling in Geotechnics (ICPMG2014) was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering. This quadrennial conference is the traditional focal point for the physical modelling community of academics, scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering. These proceedings, together with the seven previous proceedings dating from 1988, present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years. These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer-reviewed papers from 26 countries. They are organised in 14 themes, presenting the latest developments in physical modelling technology, modelling techniques and sensors, through a wide range of soil-structure interaction problems, including shallow and deep foundations, offshore geotechnics, dams and embankments, excavations and retaining structures and slope stability. Fundamental aspects of earthquake engineering, geohazards, ground reinforcements and improvements, and soil properties and behaviour are also covered, demonstrating the increasing complexity of modelling arising from state-of-the-art technological developments and increased understanding of similitude principles. A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering.

Returning Individual Research Results to Participants-National Academies of Sciences, Engineering, and Medicine 2018-09-23 When is it appropriate to return individual research results to participants? The immense interest in this question has been fostered by the growing movement toward greater transparency and participant engagement in the research enterprise. Yet, the risks of returning individual research resultsâ€”such as results with unknown validityâ€”and the associated burdens on the research enterprise are competing considerations. Returning Individual Research Results to Participants reviews the current evidence on the benefits, harms, and costs of returning individual research results, also considering the ethical, social, operational, and regulatory aspects of the practice. This report includes 12 recommendations directed to various stakeholdersâ€”investigators, sponsors, research institutions, institutional review boards (IRBs), regulators, and participantsâ€”and are designed to help (1) support decision making regarding the return of results on a study-by-study basis, (2) promote high-quality individual research results, (3) foster participant understanding of individual research results, and (4) revise and harmonize current regulations.

Digital Public Administration and E-Government in Developing Nations: Policy and Practice-Halpin, Edward Francis 2013-03-31 In recent years, it has become apparent that there are very distinct gaps between developed and developing regions in the world, especially in regards to e-government systems, infrastructures, and processes. Digital Public Administration and E-Government in Developing Nations: Policy and Practice examines e-government from the perspective of developing nations and addresses issues and concerns of developing systems and processes. This publication is a valuable and insightful tool for researchers, practitioners, policymakers, and students in different fields who are interested in information systems, public policies, politics, and media and communication studies.

Engineering and Applied Sciences Optimization-Nikos D. Lagaros 2015-05-22 The chapters which appear in this volume are selected studies presented at the First International Conference on Engineering and Applied Sciences Optimization (OPT-I), Kos, Greece, 4-6 June 2014 and works written by friends, former colleagues and students of the late Professor M. G. Karlaftis, all in the area of optimization that he loved and published so much in himself. The subject areas represented here range from structural optimization, logistics, transportation, traffic and telecommunication networks to operational research, metaheuristics, multidisciplinary and multiphysics design optimization, etc. This volume is dedicated to the life and the memory of Professor Matthew G. Karlaftis, who passed away a few hours before he was to give the opening speech at OPT-I. All contributions reflect the warmth and genuine friendship which he enjoyed from his associates and show how much his scientific contribution has been appreciated. He will be greatly missed and it is hoped that this volume will be received as a suitable memorial to his life and achievements.

Non-native English-speaking Engineers' Writing at the Workplace-Juan Du 2020-03-08 Based on 55 semi-structured in-depth interviews, this book investigates 15 high-tech engineering co-op professionals' writing experience in the workplace. It shows how the digital age has had a marked impact on the engineers' methods of communication at work, and how on-the-job writing has affected engineers' technical competence, shaped their professional identities, challenged their views on Chinese and English writing, and hindered their success in the workplace. The book identifies three aspects of writing practice: engineers' linguistic and literacy challenges, the reasons behind these challenges, and coping strategies, which suggest that engineers are underprepared and lack necessary support in the workplace. Lastly, the study shows that engineers need to engage in technical literacy through on-the-job writing so that they can fully deal with workplace discourse and socialize with diverse professional groups. Since the sample group interviewed in this book is engineers who studied at universities in the United States and have a foot in the world of school and work as well as knowledge of both Eastern and Western cultures, the book appeals to teachers, students, engineers and scientists who are interested in scientific and technological writing. It is also valuable for educators who prepare scientists, engineers, and technical communicators for professional roles, as well as for communication practitioners who work with engineers. /div

Qualitative Research in STEM-Sherry Marx 2016-07-01 Qualitative Research in STEM examines the groundbreaking potential of qualitative research methods to address issues of social justice, equity, and sustainability in STEM. A collection of empirical studies conducted by prominent STEM researchers, this book examines the experiences and challenges faced by traditionally marginalized groups in STEM, most notably culturally and linguistically diverse students and women. Investigations into these issues, as well as the high dropout rate among engineering students and issues of academic integrity in STEM, come with detailed explanations of the study methodologies used in each case. Contributors also provide personal narratives that share their perspectives on the benefits of qualitative research methodologies for the topics explored. Through a variety of qualitative methodologies, including participatory action research, Indigenous research, and critical ethnography, this volume aims to reveal and remedy the inequalities within STEM education today.

The Underrepresentation of Women in Science: International and Cross-Disciplinary Evidence and Debate-Stephen J. Ceci 2018-04-20 There is no shortage of articles and books exploring women's underrepresentation in science. Everyone is interested—academics, politicians, parents, high school girls (and boys), women in search of college majors, administrators working to accommodate women's educational interests; the list goes on. But one thing often missing is an evidence-based examination of the problem, uninfluenced by personal opinions, accounts of "lived experiences," anecdotes, and the always-encroaching inputs of popular culture. This is why this special issue of Frontiers in Psychology can make a difference. In it, a diverse group of authors and researchers with even more diverse viewpoints find themselves united by their empirical, objective approaches to understanding women's underrepresentation in science today. The questions considered within this special issue span academic disciplines, methods, levels of analysis, and nature of analysis; what these article share is their scholarly, evidence-based approach to understanding a key issue of our time.

Environmental Success Stories-Frank Dumnivant 2017-03-21 Unlike many titles on environmental issues that portend a dark future, Environmental Success Stories delves into the most daunting ecological and environmental challenges humankind has faced and shows how scientists, citizens, and a responsive public sector have dealt with them successfully. In addition to presenting the basic chemical and environmental science underlying problems like providing clean drinking water, removing DDT and lead from agriculture and our homes, and curtailing industrial pollution, this book also discusses the political actors, agency regulators, and community leaders who have collaborated to enact effective legislation. Sharing the stories of the people, organizations, and governments who have addressed these problems successfully, Frank M. Dumnivant explains how we might confront the world's largest and most complex environmental crisis: climate change. Now is the time for rededicated scientific exploration and enlightened citizen action to save our environment, and Dumnivant's book offers a stirring call to action.

Social Engineering-Michael Erbschloe 2019-09-04 This book analyzes of the use of social engineering as a tool to hack random systems and target specific systems in several dimensions of society. It shows how social engineering techniques are employed well beyond what hackers do to penetrate computer systems. And it explains how organizations and individuals can socially engineer their culture to help minimize the impact of the activities of those who lie, cheat, deceive, and defraud. After reading this book, you'll be able to analyze how organizations work and the need for security to maintain operations and sustainability, and be able to identify, respond to and counter socially engineered threats to security.

Understanding Emotions in Mathematical Thinking and Learning-Elises Xolocotzin 2017-05-12 Emotions play a critical role in mathematical cognition and learning. Understanding Emotions in Mathematical Thinking and Learning offers a multidisciplinary approach to the role of emotions in numerical cognition, mathematics education, learning sciences, and affective sciences. It addresses ways in which emotions relate to cognitive processes involved in learning and doing mathematics, including processing of numerical and physical magnitudes (e.g. time and space), performance in arithmetic and algebra, problem solving and reasoning attitudes, learning technologies, and mathematics achievement. Additionally, it covers social and affective issues such as identity and attitudes toward mathematics. Covers methodologies in studying emotion in mathematical knowledge Reflects the diverse and innovative nature of the methodological approaches and theoretical frameworks proposed by current investigations of emotions and mathematical cognition Includes perspectives from cognitive experimental psychology, neuroscience, and from sociocultural, semiotic, and discursive approaches Explores the role of anxiety in mathematical learning Synthesizes unifies the work of multiple sub-disciplines in one place

Clinical Engineering-Roberto Miniati 2015-12-23 Clinical Systems Engineering: New Challenges for Future Healthcare covers the critical issues relating to the risk management and design of new technologies in the healthcare sector. It is a comprehensive summary of the advances in clinical engineering over the past 40 years, presenting guidance on compliance and safety for hospitals and engineering teams. This contributed book contains chapters from international experts, who provide their solutions, experiences, and the successful methodologies they have applied to solve common problems in the area of healthcare technology. Topics include compliance with the European Directive on Medical Devices 93/42/EEC, European Norms EN 60601-1-6, EN 62366, and the American Standards ANSI/AAMI HE75: 2009. Content coverage includes decision support systems, clinical complex systems, and human factor engineering. Examples are fully supported with case studies, and global perspective is maintained throughout. This book is ideal for clinical engineers, biomedical engineers, hospital administrators and medical technology manufacturers. Presents clinical systems engineering in a way that will help users answer many questions relating to clinical systems engineering and its relationship to future healthcare needs Explains how to assess new healthcare technologies and what are the most critical issues in their management Provides information on how to carry out risk analysis for new technological systems or medical software Contains tactics on how to improve the quality and usability of medical devices Nanostructured Materials for Next-Generation Energy Storage and Conversion-Tulay Aygan Atesin 2019-11-15 Nanostructured Materials for Next-Generation Energy Storage and Conversion: Photovoltaic and Solar Energy, is volume 4 of a 4-volume series on sustainable energy. Photovoltaic and Solar Energy while being a comprehensive reference work, is written with minimal jargon related to various aspects of solar energy and energy policies. It is authored by leading experts in the field, and lays out theory, practice, and simulation studies related to solar energy and allied applications including policy, economic and technological challenges. Topics covered include: introduction to solar energy, fundamentals of solar radiation, heat transfer, thermal collection and conversion, solar economy, heating, cooling, demineralization systems, power and power heat, solar power conversion, policy and applications pertinent to solar energy as viable alternatives to fossil fuels. The aim of the book is to present all the information necessary for the design and analysis of solar energy systems for engineers, material scientists, economics, policy analysts, graduate students, senior undergraduates, solar energy practitioner, as well as policy or lawmakers in the field of energy policy, international energy trade, and libraries which house technical handbooks related to energy, energy policy and applications.

Teaching Engineering-Phillip C. Wankat 2015 This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format that will be useful for both new and experienced teachers.

Gulf War and Health-National Academies of Sciences, Engineering, and Medicine 2016-03-16 For the United States, the 1991 Persian Gulf War was a brief and successful military operation with few injuries and deaths. However, soon after returning from duty, a large number of veterans began reporting health problems they believed were associated with their service in the Gulf. At the request of Congress, the Institute of Medicine (IOM) has been conducting an ongoing review of the evidence to determine veterans' long-term health problems and potential causes. The fourth volume in the series, released in 2006, summarizes the long-term health problems seen in Gulf War veterans. In 2010, the IOM released an update that focuses on existing health problems and identifies possible new ones, considering evidence collected since the initial summary. Gulf War and Health: Volume 10 is an update of the scientific and medical literature on the health effects associated with deployment to the Gulf War that were identified in Volumes 4 and 8. This report reviews and evaluates the associations between illness and exposure to toxic agents, environmental or wartime hazards, or preventive measures and vaccines associated with Gulf War service, and provides recommendations for future research efforts on Gulf War veterans.

NASA's Science Activation Program-National Academies of Sciences, Engineering, and Medicine 2020-07-01 The National Aeronautics and Space Administration (NASA) is one of the United States' leading federal science, technology, engineering, and mathematics (STEM) agencies and plays an important role in the landscape of STEM education. In 2015, NASA's Science Mission Directorate (SMD) created the Science Activation (SciAct) program to increase the overall coherence of SMD's education efforts, to support more effective, sustainable, and efficient use of SMD science discoveries for education, and to enable NASA scientists and engineers to engage more effectively and efficiently in the STEM learning environment with learners of all ages. SciAct is now transitioning into its second round of funding, and it is beneficial to review the program's portfolio and identify opportunities for improvement. NASA's Science Activation Program: Achievements and Opportunities assesses SciAct's efforts towards meeting its goals. The key objectives of SciAct are to enable STEM education, improve U.S. scientific literacy, advance national education goals, and leverage efforts through partnerships. This report describes and assesses the history, current status, and vision of the program and its projects. It also provides recommendations to enhance NASA's efforts through the SciAct program.

K-12 STEM Education in Urban Learning Environments-Wendt, Jillian L. 2019-04-12 This title is an IGI Global Core Reference for 2019 as it provides the timeliest, trending research around overcoming challenges within the urban educational system. Featuring real-world solutions and comprehensive coverage on teacher professional development, racial microaggressions, STEM, and diversity in elementary and secondary education, this publication is ideal for teachers, faculty, administrators, policymakers, and educational researchers. K-12 STEM Education in Urban Learning Environments provides emerging research on the challenges and

barriers of STEM education in urban environments and how to move forward in overcoming these challenges and barriers to provide equitable education for all K-12 students. Featuring coverage on a broad range of topics such as teacher preparation, programming, gender and racial barriers, and more, this publication is ideally designed for teachers, faculty, administrators, policymakers, researchers, and scholars.

Scientific Integrity and Ethics in the Geosciences-Linda C. Gundersen 2017-11-20 Science is built on trust. The assumption is that scientists will conduct their work with integrity, honesty, and a strict adherence to scientific protocols. Written by geoscientists for geoscientists, Scientific Integrity and Ethics in the Geosciences acquaints readers with the fundamental principles of scientific ethics and shows how they apply to everyday work in the classroom, laboratory, and field. Resources are provided throughout to help discuss and implement principles of scientific integrity and ethics. Volume highlights include: Examples of international and national codes and policies Exploration of the role of professional societies in scientific integrity and ethics References to scientific integrity and ethics in publications and research data Discussion of science integrity, ethics, and geomatics in education Extensive coverage of data applications Scientific Integrity and Ethics in the Geosciences is a valuable resource for students, faculty, instructors, and scientists in the geosciences and beyond. It is also useful for geoscientists working in industry, government, and policymaking. Read an interview with the editors to find out more: <https://eos.org/editors-vox/ethics-crucial-for-the-future-of-the-geosciences>

International Conference on Emerging Trends in Engineering (ICETE)-Suresh Chandra Satapathy 2019-09-28 This book constitutes the proceedings of the First International Conference on Emerging Trends in Engineering (ICETE), held at University College of Engineering and organised by the Alumni Association, University College of Engineering, Osmania University, in Hyderabad, India on 22-23 March 2019. The proceedings of the ICETE are published in three volumes, covering seven areas: Biomedical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, and Mining Engineering. The 215 peer-reviewed papers from around the globe present the latest state-of-the-art research, and are useful to postgraduate students, researchers, academics and industry engineers working in the respective fields. This volume presents state-of-the-art, technical contributions in the areas of civil, mechanical and mining engineering, discussing sustainable developments in fields such as water resource engineering, structural engineering, geotechnical and transportation engineering, mining engineering, production and industrial engineering, thermal engineering, design engineering, and production engineering.

Teaching and Learning of Calculus-David Bressoud 2016-06-14 This survey focuses on the main trends in the field of calculus education. Despite their variety, the findings reveal a cornerstone issue that is strongly linked to the formalism of calculus concepts and to the difficulties it generates in the learning and teaching process. As a complement to the main text, an extended bibliography with some of the most important references on this topic is included. Since the diversity of the research in the field makes it difficult to produce an exhaustive state-of-the-art summary, the authors discuss recent developments that go beyond this survey and put forward new research questions.

Handbook of Test Development-Suzanne Lane 2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up-to-date, research-oriented guide to the latest developments in the field. Including thirty-two chapters by well-known scholars and practitioners, it is divided into five sections, covering the foundations of test development, content definition, item development, test design and form assembly, and the processes of test administration, documentation, and evaluation. Keenly aware of developments in the field since the publication of the first edition, including changes in technology, the evolution of psychometric theory, and the increased demands for effective tests via educational policy, the editors of this edition include new chapters on assessing noncognitive skills, measuring growth and learning progressions, automated item generation and test assembly, and computerized scoring of constructed responses. The volume also includes expanded coverage of performance testing, validity, fairness, and numerous other topics. Edited by Suzanne Lane, Mark R. Raymond, and Thomas M. Haladyna, The Handbook of Test Development, 2nd edition, is based on the revised Standards for Educational and Psychological Testing, and is appropriate for graduate courses and seminars that deal with test development and usage, professional testing services and credentialing agencies, state and local boards of education, and academic libraries serving these groups.

Control of Power Electronic Converters and Systems-Frede Blaabjerg 2018-04-27 Control of Power Electronic Converters, Volume Two gives the theory behind power electronic converter control and discusses the operation, modelling and control of basic converters. The main components of power electronics systems that produce a desired effect (energy conversion, robot motion, etc.) by controlling system variables (voltages and currents) are thoroughly covered. Both small (mobile phones, computer power supplies) and very large systems (trains, wind turbines, high voltage power lines) and their power ranges, from the Watt to the Gigawatt, are presented and explored. Users will find a focused resource on how to apply innovative control techniques for power converters and drives. Discusses different applications and their control Explains the most important controller design methods, both in analog and digital Describes different, but important, applications that can be used in future industrial products Covers voltage source converters in significant detail Demonstrates applications across a much broader context

Report of the Chief of Engineers, U.S. Army-United States. Army. Corps of Engineers 1920

15 Practice Sets for RRB Junior Engineer Stage 1 Exam with 5 Online Tests-Disha Experts The thoroughly Revised & Updated 3rd Edition of Objective Mathematics Chapter-wise MCQ for JEE Main/BITSAT is a collection of carefully selected MCQs for Engineering entrance exams. The book follows the pattern and flow of class 11 and 12 syllabus as prescribed by NCERT. The unique feature of the new edition is the inclusion of new exam-centric questions and marking of questions into Critical Thinking; Toughnut & Tricky. The book contains 'Chapter-wise MCQs' which covers all the important concepts and applications required to crack the mentioned exams. The book contains 29 chapters covering a total of around 3000 MCQs with solutions. The solutions to the questions is provided immediately after the chapter. The solutions have been prepared in a manner that a student can easily understand them. This is an ideal book to practice and revise the complete syllabus of the mentioned exams. The book will help to give finishing touches to your preparation of each chapter.

Simulation in Surgical Training and Practice, An Issue of Surgical Clinics, E-Book-Kimberly M. Brown 2015-11-12 Simulation in Surgical Training and Practice is reviewed extensively in this important Surgical Clinics of North America issue. Articles include: Applying Educational Theory to Simulation Based Training and Assessment in Surgery; Figuring out Team Simulation Training; Faculty Development for Simulation Training; The Evolving Role of Simulation in Teaching Surgery in Undergraduate Medical Education; Using Simulation in Inter-Professional Education; Current Status of Simulation Based Training in Graduate Medical Education; National Simulation-based Training of Fellows: The Vascular Surgery Example; Paying For it: Funding Models for Simulation Centers; Surgical Simulation Centers as Educational Homes for Practicing Surgeons; Better Assessment: Advanced Engineering Technology for Measuring Performance In and Out of the Simulation Lab; Moving the Needle - Simulation's Impact on Patient Outcomes; Human Factors Engineering and Effective Simulation - Partners for Improved Patient Safety; Simulation for the Assessment and Improvement of Teamwork and Communication in the Operating Room; Using Simulation to Improve Systems; Simulation for Maintenance of Certification; and more!

Gender in the Twenty-First Century-Shannon N. Davis 2017-07-18 "This edited volume of 13 original empirical chapters provides new insight into the uneven and staled nature of the gender revolution in the United States in the 21st century. Organized in two parts, the book documents the influence of gender as a social institution as it intersects with other core social institutions and other key forms of inequality and highlights specific policy interventions needed to facilitate greater gender equality. An introductory chapter situates contemporary understanding of gender inequality into the broader theoretical landscape on gender and intersectionality. The chapters in the first part of the book, Changing and Unchanging Institutions, assess the gender revolution in society's core institutions: the family, higher education, the workplace, religion, the military, and sports. These chapters assess progress toward gender equality and the policies that are needed to promote equality. The second part of the book, Gender Politics and Policies, focuses on arenas where gender politics are frequently at play as well as specific examples of policy- and practice-oriented approaches to reducing gender inequality: political and economic leadership, work-family integration policies, health, immigration, globalization, and sexuality. The volume closes with a summary of specific policy implications for the community, organizational, and federal levels derived from the book's empirical chapters."-- Provided by publisher.

Know Your State - Madhya Pradesh-Arihant Experts 2019-04-23 Gaining General Knowledge of Madhya Pradesh, the central state of India is essential while appearing in MPSC, or any other state level exams. The revised edition of "Know Your State Madhya Pradesh" has been a perfect book for aspirants to take a quick reference at the general knowledge of this state while they are studying for any state level exam. It provides the detailed study of history, geography, economy, polity, art and culture, center and state governments' welfare schemes, and current affairs of this state in a systemic and well-organized manner. It covers as many as 34 chapters to deliver a comprehensive read to facilitate a profound set of information about the state from all areas. Housed with more than 1200 Multiple Choice Questions, this is an excellent reference book to gain ample amount of General Knowledge of Madhya Pradesh, and is highly useful for MPSC, and other state level exams.

Iowa Official Register- 2011

Transportation Engineering-Dusan Teodorovic 2016-09-13 Transportation Engineering: Theory, Practice and Modeling is a guide for integrating multi-modal transportation networks and assessing their potential cost and impact on society and the environment. Clear and rigorous in its coverage, the authors begin with an exposition of theory related to traffic engineering and control, transportation planning, and an evaluation of transportation alternatives that is followed by models and methods for predicting travel and freight transportation demand, analyzing existing and planning new transportation networks, and developing traffic control tactics and strategies. Written by an author team with over thirty years of experience in both research and teaching, the book incorporates both theory and practice to facilitate greener solutions. Contains worked out examples and end of the chapter questions Covers all forms of transportation engineering, including air, rail, and public transit modes Includes modeling and analytical procedures for supporting different aspects of traffic and transportation analyses Examines different transport mode sand how to make them sustainable Explains the economics of transport systems in terms of users' value of time

Proceedings of 6th International Conference on Recent Trends in Computing-Rajendra Prasad Mahapatra 2021 This book is a collection of high-quality peer-reviewed research papers presented at Sixth International Conference on Recent Trends in Computing (ICRTC 2020) held at SRM Institute of Science and Technology, Ghaziabad, Delhi, India, during 3 -4 July 2020. The book discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. The book presents original works from researchers from academic and industry in the field of networking, security, big data and the Internet of things.

Continuity of NASA Earth Observations from Space-National Academies of Sciences, Engineering, and Medicine 2015-11-24 NASA's Earth Science Division (ESD) conducts a wide range of satellite and suborbital missions to observe Earth's land surface and interior, biosphere, atmosphere, cryosphere, and oceans as part of a program to improve understanding of Earth as an integrated system. Earth observations provide the foundation for critical scientific advances and environmental data products derived from these observations are used in resource management and for an extraordinary range of societal applications including weather forecasts, climate projections, sea level change, water management, disease early warning, agricultural production, and the response to natural disasters. As the complexity of societal infrastructure and its vulnerability to environmental disruption increases, the demands for deeper scientific insights and more actionable information continue to rise. To serve these demands, NASA's ESD is challenged with optimizing the partitioning of its finite resources among measurements intended for exploring new science frontiers, carefully characterizing long-term changes in the Earth system, and supporting ongoing societal applications. This challenge is most acute in the decisions the Division makes between supporting measurement continuity of data streams that are critical components of Earth science research programs and the development of new measurement capabilities. This report seeks to establish a more quantitative understanding of the need for measurement continuity and the consequences of measurement gaps. Continuity of NASA's Earth's Observations presents a framework to assist NASA's ESD in their determinations of when a measurement or dataset should be collected for durations longer than the typical lifetimes of single satellite missions.

The Assessment of Learning in Engineering Education-John Heywood 2016-04-11 Explores how we judge engineering education in order to effectively redesign courses and programs that will prepare new engineers for various professional and academic careers Shows how present approaches to assessment were shaped and what the future holds Analyzes the validity of teaching and judging engineering education Shows the integral role that assessment plays in curriculum design and implementation Examines the sociotechnical system's impact on engineering curricula

Building Capacity for Teaching Engineering in K-12 Education-National Academies of Sciences, Engineering, and Medicine 2020-03-13 Engineering education is emerging as an important component of US K-12 education. Across the country, students in classrooms and after- and out-of-school programs are participating in hands-on, problem-focused learning activities using the engineering design process. These experiences can be engaging; support learning in other areas, such as science and mathematics; and provide a window into the important role of engineering in society. As the landscape of K-12 engineering education continues to grow and evolve, educators, administrators, and policy makers should consider the capacity of the US education system to meet current and anticipated needs for K-12 teachers of engineering. Building Capacity for Teaching Engineering in K-12 Education reviews existing curricula and programs as well as related research to understand current and anticipated future needs for engineering-literate K-12 educators in the United States and determine how these needs might be addressed. Key topics in this report include the preparation of K-12 engineering educators, professional pathways for K-12 engineering educators, and the role of higher education in preparing engineering educators. This report proposes steps that stakeholders - including professional development providers, postsecondary preservice education programs, postsecondary engineering and engineering technology programs, formal and informal educator credentialing organizations, and the education and learning sciences research communities - might take to increase the number, skill level, and confidence of K-12 teachers of engineering in the United States.

Handbook of Research on STEM Education-Carla C. Johnson 2020-04-27 The Handbook of Research on STEM Education represents a groundbreaking and comprehensive synthesis of research and presentation of policy within the realm of science, technology, engineering, and mathematics (STEM) education. What distinguishes this Handbook from others is the nature of integration of the disciplines that is the founding premise for the work - all chapters in this book speak directly to the integration of STEM, rather than discussion of research within the individual content areas. The Handbook of Research on STEM Education explores the most pressing areas of STEM within an international context. Divided into six sections, the authors cover topics including: the nature of STEM, STEM learning, STEM pedagogy, curriculum and assessment, critical issues in STEM, STEM teacher education, and STEM policy and reform. The Handbook utilizes the lens of equity and access by focusing on STEM literacy, early childhood STEM, learners with disabilities, informal STEM, socio-scientific issues, race-related factors, gender equity, cultural-relevancy, and parental involvement. Additionally, discussion of STEM education policy in a variety of countries is included, as well as a focus on engaging business/industry and teachers in advocacy for STEM education. The Handbook's 37 chapters provide a deep and meaningful landscape of the implementation of STEM over the past two decades. As such, the findings that are presented within provide the reader with clear directions for future research into effective practice and supports for integrated STEM, which are grounded in the literature to date.

Cybersecurity for Information Professionals-Hsia-Ching Chang 2020-06-28 Information professionals have been paying more attention and putting a greater focus on privacy over cybersecurity. However, the number of both cybersecurity and privacy breach incidents are soaring, which indicates that cybersecurity risks are high and growing. Utilizing cybersecurity awareness training in organizations has been an effective tool to promote a cybersecurity-conscious culture, making individuals more cybersecurity-conscious as well. However, it is unknown if employees' security behavior at work can be extended to their security behavior at home and personal life. On the one hand, information professionals need to inherit their role as data and information gatekeepers to safeguard data and information assets. On the other hand, information professionals can aid in enabling effective information access and dissemination of cybersecurity knowledge to make users conscious about the cybersecurity and privacy risks that are often hidden in the cyber universe. Cybersecurity for Information Professionals: Concepts and Applications introduces fundamental concepts in cybersecurity and addresses some of the challenges faced by information professionals, librarians, archivists, record managers, students, and professionals in related disciplines. This book is written especially for educators preparing courses in information security, cybersecurity, and the integration of privacy and cybersecurity. The chapters contained in this book present multiple and diverse perspectives from professionals in the field of cybersecurity. They cover such topics as: Information governance and cybersecurity User privacy and security online and the role of information professionals Cybersecurity and social media Healthcare regulations, threats, and their impact on cybersecurity A socio-technical perspective on mobile cybersecurity Cybersecurity in the software development life cycle Data security and privacy Above all, the book addresses the ongoing challenges of cybersecurity. In particular, it explains how information professionals can contribute to long-term workforce development by designing and leading cybersecurity awareness campaigns or cybersecurity hygiene programs to change people's security behavior.

Health Informatics Meets eHealth-G. Schreier 2016-05-12 Progress in medicine has traditionally relied heavily on classical research pathways involving randomized clinical trials (RCTs) to establish reliable evidence for any given therapeutic intervention. However, not only are RCTs lengthy and expensive, they have a number of other disadvantages, including the fact that they are currently failing to keep pace with the number of potential innovative treatment options being developed, particularly in areas such as rare diseases. With the vast amount of data increasingly available for use in profiling patient characteristics and establishing correlations between outcomes and potential predictors, predictive modeling may offer a potential solution to the limitations of RCTs. This book presents the proceedings of the 2016 Health Informatics meets eHealth conference, held in Vienna, Austria in May 2016. The conference provides a platform for researchers, practitioners, decision makers and vendors to discuss innovative health informatics and eHealth solutions with a view to improving the quality, efficacy and efficiency of healthcare. The theme of the conference is Predictive Modeling in Healthcare. Covering subjects as diverse as fall-detection in the elderly, diabetes, physiotherapy and pediatric oncology, this book will be of interest to all those working in the field of (e)healthcare and its delivery.

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