

46th Annual Conference November 14 16 2012

Yeah, reviewing a book **46th annual conference november 14 16 2012** could be credited with your close associates listings. This is just one of the solutions for you to be successful. As understood, feat does not suggest that you have extraordinary points.

Comprehending as competently as treaty even more than extra will give each success. neighboring to, the broadcast as capably as sharpness of this 46th annual conference november 14 16 2012 can be taken as capably as picked to act.

Wireless Networks: Characteristics and Applications - MDPI 2019-10-18

Wireless technology has become extremely important for human life and nearly everyone carries at least one cell/mobile phone. Voice communication affects our daily lives and we are influenced by day-to-day routine. Wireless systems are being explored for numerous applications in addition to their current communication function. One can only imagine the possible innovations from an area is expanding at an unprecedented rate and offers significant future potentials. This volume is a carefully selected collection of papers that characterizes the technology and establishes its use.

Obama Power - Jeffrey C. Alexander 2014-08-12

What is the source of Obama's power? How is it that, after suffering a humiliating defeat in the 2010 mid-term elections, Obama was able to turn the situation around, deftly outmaneuvering his opponent and achieving a decisive victory in the November 2012 presidential election? In this short and brilliant book, Jeffrey Alexander and Bernadette Jaworsky argue that neither money nor demography can explain this dramatic turnaround. What made it possible, they show, was cultural reconstruction. Realizing he had failed to provide a compelling narrative of his power, the President began forging a new salvation story. It portrayed the Republican austerity budget as a sop to the wealthy, and Obama as a courageous hero fighting for plain folks against the rich. The reinvigorated cultural performance pushed the Tea Party off the political stage in 2011, and Mitt Romney became fodder for the script in 2012. Democrats painted their Republican opponent as a backward-looking elitist, a "Bain-capitalist" whose election would threaten the civil solidarity upon which democracy depends. Real world events can spoil even the most effective script. Obama faced monthly unemployment numbers, the daunting Bin Laden raid, three live debates, and Hurricane Sandy. The clumsiness of his opponent and his own good fortune helped the President, but it was the poise and felicity of his improvisations that allowed him to succeed a second time. Converting events into plot points, the President demonstrated the flair for the dramatic that has made him one of the most effective politicians of modern times. While persuasively explaining Obama's success, this book also demonstrates a fundamental but rarely appreciated truth about political power in modern democratic societies namely, that winning power and holding on to it have as much to do with the ability to use symbols effectively and tell good stories as anything else.

Emerging Applications of Control and Systems Theory - Roberto Tempo 2018-02-24

This book celebrates Professor Mathukumalli Vidyasagar's outstanding achievements in systems, control, robotics, statistical learning, computational biology, and allied areas. The contributions in the book summarize the content of invited lectures given at the workshop "Emerging Applications of Control and Systems Theory" (EACST17) held at the University of Texas at Dallas in late September 2017 in honor of Professor Vidyasagar's seventieth birthday. These contributions are the work of twenty-eight distinguished speakers from eight countries and are related to Professor Vidyasagar's areas of research. This Festschrift volume will remain as a permanent scientific record of this event.

Journal of Disability Policy Studies - 2012

Overhang Design Methods - Sanja Stevanovic 2022-09-08

It is estimated that windows in office buildings are responsible for one third of energy used for their heating and cooling. Designing window shading that balances often contradictory goals of preventing excessive heat gains in hot periods, without compromising beneficial heat gains in cold periods or visual comfort in indoor spaces of modern buildings with highly glazed facades, is an interesting multi-objective optimisation problem that represents an active research topic in the field of building energy and daylighting. Window overhangs are the simplest and most traditional shading devices that are easy to install, highly cost-effective,

require low or no maintenance and offer unobstructed views outside.

This book provides a review of overhang design methods for optimal thermal and daylighting performance. It starts with a historical overview of methods based on solar positions and shading masks. Next it discusses current research methodology, including shading calculation methods, ways of quantifying thermal and daylighting overhang effectiveness and the use of multi-objective optimisation approaches, together with the case studies that employ them. It further covers methods for designing innovative overhang types such as NURBS outlined overhangs and PV integrated dynamic overhangs. The appendix classifies published overhang case studies according to major climate type and latitude of their locations. As such, the book presents a valuable resource for understanding subtle nuances of interaction between solar radiation, shading devices and indoor comfort. The intended target audience are building energy researchers interested in optimisation of window shading devices.

American Government and Politics: Deliberation, Democracy, and Citizenship - No Separate Policy Chapters - Joseph M. Bessette 2013-01-01

Bessette/Pitney's AMERICAN GOVERNMENT AND POLITICS: DELIBERATION, DEMOCRACY, AND CITIZENSHIP is based on the idea of deliberative democracy: political systems work best when informed citizens and public officials deliberate to identify and promote the common good. Emphasizing citizenship, the text examines the way that civic culture and immigration impact students and shape the country. It offers solid historical coverage and a close look at civic responsibility. This version of the text does not include policy chapters. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

ICT Education - Janet Liebenberg 2017-11-17

This book constitutes the refereed proceedings of the 46th Annual Conference of the Southern African Computer Lecturers' Association on ICT Education, SACLA 2017, held in Magaliesburg, South Africa, in July 2017. The 22 revised full papers presented together with an extended abstract of a keynote paper were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections on ICT students of a new generation; technology and gaming in nowadays education; educational cooperation with the ICT industry; computer programming education; ICT courses and curricula.

Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2019 - Aboul Ella Hassanien 2019-10-02

This book presents the proceedings of the 5th International Conference on Advanced Intelligent Systems and Informatics 2019 (AIS2019), which took place in Cairo, Egypt, from October 26 to 28, 2019. This international and interdisciplinary conference, which highlighted essential research and developments in the fields of informatics and intelligent systems, was organized by the Scientific Research Group in Egypt (SRGE). The book is divided into several sections, covering the following topics: machine learning and applications, swarm optimization and applications, robotic and control systems, sentiment analysis, e-learning and social media education, machine and deep learning algorithms, recognition and image processing, intelligent systems and applications, mobile computing and networking, cyber-physical systems and security, smart grids and renewable energy, and micro-grid and power systems.

The Empirical Validation of House Energy Rating (HER) Software for Lightweight Housing in Cool Temperate Climates - Mark Andrew Dewsbury 2015-02-02

This book reports on the first empirical validation of "AccuRate," Australia's national benchmark software tool for house energy ratings. The validation was conducted by the University of Tasmania in collaboration with Forest and Wood Products Australia, the Australian Government, the CSIRO and industry partners. The study presented here describes the results of graphical and statistical analysis of variations

observed between the measured and simulated data from three different test buildings in Launceston, Tasmania. It shows that, while the AccuRate software is well suited to modeling energy flows, there are discrepancies between the simulated and measured temperatures of the test buildings. Moreover, it highlights possible connections between the discrepancies in all zones and the outside air temperature, wind speed, global and diffuse solar radiation, and possibly the ground model. Beyond its contribution to further investigations into the ongoing improvement and calibration of the Australian NatHERS-supported AccuRate software, this book also meticulously describes the methodology used in conducting the research, which is expected to pave the way for further studies of this type.

Gordian Knot - Ryan M. Irwin 2012-09-20

'Gordian Knot' explores how African decolonization remade the international order of the mid-20th century. In looking closely at the apartheid debate, the book shows the way South Africa's policies shaped the global conversation about rights and race and eroded Washington's influence at the United Nations.

Machine Translation - Xiaodong Shi 2014-10-29

This book constitutes the refereed proceedings of the 10th China Workshop on Machine Translation, CWMT 2014, held in Macau, China, in November 2014. The 10 revised full English papers presented were carefully reviewed and selected from 15 submissions of English papers. The papers cover the following topics: machine translation; data selection; word segmentation; entity recognition; MT evaluation.

Assessment of Renewable Energy Resources with Remote Sensing

- Fernando Ramos Martins 2021-03-18

The book "Assessment of Renewable Energy Resources with Remote Sensing" focuses on disseminating scientific knowledge and technological developments for the assessment and forecasting of renewable energy resources using remote sensing techniques. The eleven papers inside the book provide an overview of remote sensing applications on hydro, solar, wind and geothermal energy resources and their major goal is to provide state of art knowledge to contribute with the renewable energy resource deployment, especially in regions where energy demand is rapidly expanding. Renewable energy resources have an intrinsic relationship with local environmental features and the regional climate. Even small and fast environment and/or climate changes can cause significant variability in power generation at different time and space scales. Methodologies based on remote sensing are the primary source of information for the development of numerical models that aim to support the planning and operation of an electric system with a substantial contribution of intermittent energy sources. In addition, reliable data and knowledge on renewable energy resource assessment are fundamental to ensure sustainable expansion considering environmental, financial and energetic security.

Power Electronic Converter Configuration and Control for DC

Microgrid Systems - Jens Bo Holm-Nielsen 2020-11-13

The DC/AC microgrid system is a crucial empowering technology for the integration of various types of renewable energy sources (RES) accompanied by a smart control approach to enhance the system reliability and efficiency. This book presents cutting-edge technology developments and recent investigations performed with the help of power electronics. Large-scale renewable energy integration presents challenges and issues for power grids. In particular, these issues include microgrid adaption to RES, AC machines, the new configuration of AC/DC converters, and electrification of domestic needs with optimal cost expenses from domestic standalone microgrids. Furthermore, this book elaborates cutting-edge developments in electric vehicle fast charging configuration, battery management, and control schemes with renewable energies through hardware-in-loop testing and validation for performance durability in real-time application. Overall, the book covers the diverse field of microgrids, allowing readers to adopt new technologies and prepare for future power demands with sustainable green engineering.

Advances in Artificial Intelligence and Its Applications - Felicitas Castro 2013-11-22

The two-volume set LNAI 8265 and LNAI 8266 constitutes the proceedings of the 12th Mexican International Conference on Artificial Intelligence, MICAI 2013, held in Mexico City, Mexico, in November 2013. The total of 85 papers presented in these proceedings were carefully reviewed and selected from 284 submissions. The first volume deals with advances in artificial intelligence and its applications and is structured in the following five sections: logic and reasoning; knowledge-based systems and multi-agent systems; natural language processing;

machine translation; and bioinformatics and medical applications. The second volume deals with advances in soft computing and its applications and is structured in the following eight sections: evolutionary and nature-inspired metaheuristic algorithms; neural networks and hybrid intelligent systems; fuzzy systems; machine learning and pattern recognition; data mining; computer vision and image processing; robotics, planning and scheduling and emotion detection, sentiment analysis and opinion mining.

One America? - Nathan Angelo 2019-05-02

Reveals how presidents deploy a rhetoric that attempts to attract many racial and ethnic groups, but ultimately directs itself to an archtypal white, Middle-American swing voter. Despite major advancements in civil rights in the United States since the 1960s, racial inequality continues to persist in American society. While it may appear that presidents do not address the topic of race, it lurks in the background of presidential political speech across a range of issues, including welfare, crime, and American identity. Using a thorough approach that places textual analysis in a historical context, *One America?* asks what presidents say about race, how often they say it, and to whom they say it. Nathan Angelo demonstrates how presidents attempt to use rhetoric to compose a message that will resonate with the many groups that comprise the modern party system, but ultimately those alliances cause presidents to direct most of their speeches about race to an archetypical white, Middle-American swing voter, thereby restricting the issues and solutions that they discuss. While the American demographic profile is changing, rhetoric that links American identity with racially coded concepts and appeals to white voters' racial resentments has become ubiquitous. Angelo warns us about the possible repercussions of such tactics, noting that, while they may allow presidents to craft winning coalitions, their use continues to legitimate a system that ignores racial inequality. Nathan Angelo is Assistant Professor of Political Science at Worcester State University.

Challenges in Mechanics of Time Dependent Materials, Volume 2 - Alex Arzoumanidis 2017-10-17

Challenges in Mechanics of Time-Dependent Materials, Volume 2 of the Proceedings of the 2017 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the second volume of nine from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics, including papers in the following general technical research areas: Characterization Across Length Scales Extreme Environments & Environmental Effects Viscoelasticity Structure Function Performance Polymer Viscoplasticity Metallic

Materials Fracture/Fatigue/Damage Composites Soft Materials

Intelligent Data Engineering and Automated Learning - IDEAL 2019 Hujun Yin 2019-11-07

This two-volume set of LNCS 11871 and 11872 constitutes the thoroughly refereed conference proceedings of the 20th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2019, held in Manchester, UK, in November 2019. The 94 full papers presented were carefully reviewed and selected from 149 submissions. These papers provided a timely sample of the latest advances in data engineering and machine learning, from methodologies, frameworks, and algorithms to applications. The core themes of IDEAL 2019 include big data challenges, machine learning, data mining, information retrieval and management, bio-/neuro-informatics, bio-inspired models (including neural networks, evolutionary computation and swarm intelligence), agents and hybrid intelligent systems, real-world applications of intelligent techniques and AI.

Web Information Systems Engineering - WISE 2015 Jianyong Wang 2015-10-26

This two volume set LNCS 9418 and LNCS 9419 constitutes the proceedings of the 16th International Conference on Web Information Systems Engineering, WISE 2015, held in Miami, FL, USA, in November 2015. The 53 full papers, 17 short and 14 special sessions and invited papers, presented in these proceedings were carefully reviewed and selected from 189 submissions. The papers cover the areas of big data techniques and applications, deep/hidden web, integration of web and internet, linked open data, semantic web, social network computing, social web and applications, social web models, analysis and mining, web-based applications, web-based business processes and web services, web data integration and mashups, web data models, web information retrieval, web privacy and security, web-based recommendations, and web search.

Textbook of Animal Biotechnology - B Singh 2005-01-01

Animal biotechnology is an integral component of agriculture. Supported with over 50 figures and more than 30 tables, this textbook is a must have for undergraduates and postgraduates of various agriculture and animal husbandry academia, teachers, professionals, and researchers in basic as well as applied animal sciences including biotechnology, nutrition, physiology and reproduction. The book covers various topics, including economically important livestock breeds, paradigm shifts in livestock production, biotechnology in animal nutrition and in livestock-assisted reproduction, and genomics and genetic engineering tools in livestock production and management.

Israel, Strategic Culture and the Conflict with Hamas - Niccolò Petrelli 2017-10-12

This book offers a comprehensive overview of the impact of 'strategic culture' on Israeli military operations against Hamas between 1987 and 2014. It has often been argued that Israeli policies and military operations against Hamas have proven tactically effective, but strategically disastrous, allowing the Islamic Resistance Movement to grow from a small spin-off of the Muslim Brotherhood into a powerful military and political actor in the Palestinian arena. This book argues, contrary to this opinion, that Israel was effective in its struggle against the Islamic Resistance Movement between 1987 and 2014, as the Jewish state ultimately managed to deny the majority of Hamas' strategic aims and to preserve a position of relative strength. By relying on a synthesis of primary sources, interviews, memoirs, scholarly and professional military studies and information gathered from the media, the study delivers a careful and comprehensive analysis of the conflict. It provides an historical outline of the development of the Israeli 'strategic culture' and analyzes its impact on the process of military adaptation during the First Intifada, the Oslo Peace Process, the al-Aqsa Intifada and the Gaza wars. Finally, the book illuminates how the Israeli strategic culture moulded a distinctive 'way of war' that, though marked by successes and failures, ultimately proved effective against Hamas. This book will be of much interest to students of strategic studies, Middle Eastern politics, counter-insurgency, counter-terrorism and security studies in general.

Broadband Wireless Communications for Railway Applications - Émilie Masson 2016-10-14

This book focuses on the needs of railway operators in terms of wireless communications, divided in two main categories: the commercial services and the operational needs. Then, all available technologies that can be used to provide Internet access on board trains and all the other operational applications requiring high capacity are detailed. Finally, challenges and trends in railway telecommunications are highlighted, through the presentation of the future and emerging technologies, the current discussions and works in the different authorities, and the key challenges and scientific barriers.

Spaces of Tolerance - Igea Troiani 2021-03-29

Spaces of Tolerance addresses the topic of tolerance in architectural production. Through examining the boundaries of where discourses, practices and designs are considered publishable (suitable to be made public) or not, the book exposes criteria and cultures which censor architecture so as to offer ways that architecture can be more inclusive and diverse for society at large. The contributors to the book discuss: disciplinary tolerances and constraints related to architecture and its interdisciplinary exchanges and modes of working; physical, spatial, temporal and digital tolerance in material assemblages and production between drawing and building; and social, cultural and political tolerance and threats contingent on geography and history. This timely book aims to look at extremities, margins and marginality to explore acceptable levels - and their fluctuations - in deviation and divergence. Chapters in the book involve ungendering, unacculturating (in disciplinary terms) and diversifying the architectural practitioner, writer, editor, reviewer, and reader, and retooling the instruments and tactics of architectural practice and theory. They argue that tolerance in interdisciplinary research in architecture can cultivate more diverse and productive conversations. The chapters in this book were originally published as a special issue of the journal *Architecture and Culture*.

Theory of Cryptography - Amos Beimel 2018-11-04

The two-volume set of LNCS 11239 and LNCS 11240 constitutes the revised proceedings of the 16th International Conference on Theory of Cryptography, TCC 2018, held in Panaji, India, in November 2018. The total of 50 revised full papers presented in the proceedings were carefully reviewed and selected from 168 submissions. The Theory of Cryptography Conference deals with the paradigms, approaches, and techniques used to conceptualize natural cryptographic problems and

provide algorithmic solutions to them and much more.

Recent Findings in Intelligent Computing Techniques - Pankaj Kumar Sa 2018-11-03

This three volume book contains the Proceedings of 5th International Conference on Advanced Computing, Networking and Informatics (ICACNI 2017). The book focuses on the recent advancement of the broad areas of advanced computing, networking and informatics. It also includes novel approaches devised by researchers from across the globe. This book brings together academic scientists, professors, research scholars and students to share and disseminate information on knowledge and scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into applied investigation and convert applied investigation into practice.

Model Rules of Professional Conduct - American Bar Association. House of Delegates 2007

The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

The Trade Policy Review Mechanism - Mathias Kende 2018-02-09

The WTO's Trade Policy Review Mechanism, which reviews the trade policies and practices of each WTO member at regular intervals, is generally considered to function well. In this day and age, complacency is unwise. Examining trade policy reviews throughout the lifetime of the TPRM, this book details its evolution from Article X of the General Agreement on Tariffs and Trade to the proposed modifications resulting from the mechanism's latest appraisal, examining the budgetary capabilities and technical performance of all the main entities who participate in the reviews. On the basis of these considerations, the author concludes that in order to remain relevant, especially in times of increased global protectionism, the TPRM could, and should do better, and provides unique and timely suggestions for reform.

Advances in Artificial Intelligence -- IBERAMIA 2012 - Juan Pavón 2012-11-15

This book constitutes the refereed proceedings of the 13th Ibero-American Conference on Artificial Intelligence, IBERAMIA 2012, held in Cartagena de Indias, Colombia, in November 2012. The 75 papers presented were carefully reviewed and selected from 170 submissions. The papers are organized in topical sections on knowledge representation and reasoning, information and knowledge processing, knowledge discovery and data mining, machine learning, bio-inspired computing, fuzzy systems, modelling and simulation, ambient intelligence, multi-agent systems, human-computer interaction, natural language processing, computer vision and robotics, planning and scheduling, AI in education, and knowledge engineering and applications.

Hybrid Energy Systems - Yatish T. Shah 2021-04-05

Hybrid Energy Systems: Strategy for Industrial Decarbonization demonstrates how hybrid energy and processes can decarbonize energy industry needs for power and heating and cooling. It describes the role of hybrid energy and processes in nine major industry sectors and discusses how hybrid energy can offer sustainable solutions in each. Introduces the basics and examples of hybrid energy systems Examines hybrid energy and processes in coal, oil and gas, nuclear, building, vehicle, manufacturing and industrial processes, computing and portable electronic, district heating and cooling, and water sectors Shows that hybrid processes can improve efficiency and that hybrid energy can effectively insert renewable fuels in the energy industry Serves as a companion text to the author's book Hybrid Power: Generation, Storage, and Grids Written for advanced students, researchers, and industry professionals involved in energy-related processes and plants, this book offers latest research and practical strategies for application of the innovative field of hybrid energy.

The National Cowboy & Western Heritage Museum - Bobby D. Weaver 2020-12-11

In June 1965, the National Cowboy Hall of Fame and Western Heritage

Center, as it was then named, owned a mere handful of artifacts. In fact, the Oklahoma City institution was forced to borrow materials in order to mount exhibitions to support its inaugural events. From that modest beginning, the center, now known as the National Cowboy and Western Heritage Museum, has grown into perhaps the world's most respected repository for the study and understanding of the diverse cultures of the American West. But, as Bobby D. Weaver demonstrates in this no-holds-barred history, the path from those humble origins to the esteemed position the museum occupies today led through some rough-and-tumble times, including a period of receivership. The autocratic style of the founding director, coupled with certain early less-than-ethical practices, forced the museum into what Weaver delicately terms "a legal tangle" that required a complete organizational and financial overhaul. With renewed professional leadership and the steadfast support of dedicated patrons and sponsors, the National Cowboy and Western Heritage Museum has developed and changed along with evolving understandings of the culture it was founded to celebrate. What was once a shrine to a particular manifestation of American frontier life has transformed into a world-class art and historical museum that represents the broad sweep of the American West—both lived and imagined—with its full range of social, ethnic, and economic diversity. As Weaver relates, today's institution is well poised for the future as it furthers its mission of preserving and interpreting the heritage of a vital American region and its lifeways.

Reliable Software Technologies -- Ada-Europe 2013 - Hubert B. Keller 2013-05-27

This book constitutes the refereed proceedings of the 18th Ada-Europe International Conference on Reliable Software Technologies, Ada-Europe 2013, was held in Berlin, Germany, in June 2013. The 11 full papers presented were carefully reviewed and selected from various submissions. They are organized in topical sections on multi-core and distributed systems; Ada and Spark; dependability; and real-time systems.

Proceedings of the 19th Annual Tcl Association Tcl/Tk conference Association Press 2012-12-31

Conference proceedings of the U.S. Tcl conference of 2012

The Waterways Journal - 1972

Open for Business Richard Feinberg 2016-06-14

An expert guide to Cuba's economic opening to the outside world. Ninety miles across the Straits of Florida, an exciting new revolution is afoot. This time, instead of guerillas marching down the streets of Havana, it is a global economy that will upend Cuba. Now opening to the world, what new forms is this nascent economy likely to take? *Open for Business: The New Cuban Economy*, Richard E. Feinberg's new book, examines the Cuban economy as it makes its early steps into developing a more dynamic market economy. He examines key issues like the role foreign investors will play, how Cubans will forge a path to entrepreneurship, and the roadmaps suggested by other emerging economies. As Cuba's economy awakens from the post-Castro dream, it will do so with a flavor that is uniquely Cuban. Feinberg's book—enriched by interviews and in-depth field research conducted over the last five years—speaks both to Cuba's legacy and to its new horizons on the world stage.

Third-Party Reproduction - James M. Goldfarb 2013-10-07

The first IVF conceived birth in 1978 resulted in a significant growth of third party reproductive options which continue to raise ethical, legal, and psychological questions. Third party reproduction procedures can involve as many as five people: sperm donor, egg donor, gestational carrier, and intended parents. *Third-Party Reproduction: A Comprehensive Guide* utilizes experts in the field to address the medical, psychological, ethical and legal aspects of sperm donation, egg donation, embryo donation, and the use of gestational carriers. In addition, there are chapters on the medical and ethical aspects of posthumous reproduction, religious aspects of third party reproduction, and how to avoid pitfalls of third party reproduction. Aimed at physicians, trainees, psychologists, nurses, and social workers whose practices may include patients considering third party reproduction, the intent of this book is to provide a comprehensive and practical overview of the many aspects of third party reproduction to help all those involved to better understand them. Patients considering third party reproduction may also find value in this book.

Mathematical Modeling of Fluid Flow and Heat Transfer in Petroleum Industries and Geothermal Applications Mehrdad Massoudi 2020-04-16
Geothermal energy is the thermal energy generated and stored in the Earth's core, mantle, and crust. Geothermal technologies are used to

generate electricity and to heat and cool buildings. To develop accurate models for heat and mass transfer applications involving fluid flow in geothermal applications or reservoir engineering and petroleum industries, a basic knowledge of the rheological and transport properties of the materials involved (drilling fluid, rock properties, etc.)—especially in high-temperature and high-pressure environments—are needed. This Special Issue considers all aspects of fluid flow and heat transfer in geothermal applications, including the ground heat exchanger, conduction and convection in porous media. The emphasis here is on mathematical and computational aspects of fluid flow in conventional and unconventional reservoirs, geothermal engineering, fluid flow, and heat transfer in drilling engineering and enhanced oil recovery (hydraulic fracturing, CO2 injection, etc.) applications.

The Fatimid Caliphate Farhad Daftary 2017-10-30

I.B.Tauris in association with the Institute of Ismaili Studies The Fatimids ruled much of the Mediterranean world for over two centuries. From the conquest of Qayrawan in 909 to defeat at the hands of Saladin in 1171, the Fatimid caliphate governed a vast area stretching, at its peak, from the Red Sea in the East to the Atlantic Ocean in the West. Their leaders - the Ismaili Shi'i Imam-caliphs - were distinctive in largely pursuing a policy of tolerance towards the religious and ethnic communities of their realm, and they embraced diverse approaches to the practicalities of administering a vast empire. Such methods of negotiating government and diversity created a lasting pluralistic legacy. The present volume, edited by Farhad Daftary and Shainool Jiwa, brings together a series of original contributions from a number of leading authorities in the field. Based on analyses of primary sources, the chapters shed fresh light on the impact of Fatimid rule. The book presents little explored aspects of state-society relations such as the Fatimid model of the vizierate, Sunni legal responses to Fatimid observance, and the role of women in prayer. Highlighting the distinctive nature of the Fatimid empire and its legacy, this book will be of special interest to researchers in mediaeval Islamic history and thought.

Israeli National Security Charles D. Freilich 2018-03-08

National security has been at the forefront of the Israeli experience for seven decades, with threats ranging from terrorism, to vast rocket and missile arsenals, and even existential nuclear dangers. Yet, despite its overwhelming preoccupation with foreign and defense affairs, Israel does not have a formal national security strategy. In *Israeli National Security*, Chuck Freilich presents an authoritative analysis of the military, diplomatic, demographic, and societal challenges Israel faces today, to propose a comprehensive and long-term Israeli national security strategy. The heart of the new strategy places greater emphasis on restraint, defense, and diplomacy as means of addressing the challenges Israel faces, along with the military capacity to deter and, if necessary, defeat Israel's adversaries, while also maintaining the resolve of its society. By bringing Israel's most critical debates about the Palestinians, demography, Iran, Hezbollah, Hamas, US relations and nuclear strategy into sharp focus, the strategy Freilich proposes addresses the primary challenges Israel must address in order to chart its national course. The most comprehensive study of Israel's national security to date, this book presents the first public proposal for a comprehensive Israeli national security strategy and prescribes an actionable course forward.

Sucker-Rod Pumping Handbook - Gabor Takacs 2015-05-02

Sucker-Rod Pumping Handbook presents the latest information on the most common form of production enhancement in today's oil industry, making up roughly two-thirds of the producing oilwell operations in the world. The book begins with an introduction to the main features of sucker rod pumping and an explanation and comparison of lift methods. It goes on to provide the technical and practical knowledge needed to introduce the new and practicing production engineer and operator to the equipment, technology, and applications required to maintain optimum operating conditions. *Sucker-Rod Pumping Handbook* is a must-have manual that ensures operators understand the design, components, and operation of sucker rod pump systems, learn the functions of the systems, apply the fundamental production engineering theories and calculations, and accomplish maximum system efficiency by avoiding the typical pitfalls that lead to fatigue and failure. Covers basic equipment, techniques, and codes to follow in a comprehensive and easy-to-understand format Helps users grasp common handling problems that lead to failures Provides analysis of sucker rod pump installations, including well testing, dynamometer surveys, and modern interpretation methods Aids operators in understanding and applying fundamental production theories and calculations of operational parameters

Tough Love - Susan Rice 2019-10-08

Recalling pivotal moments from her dynamic career on the front lines of American diplomacy and foreign policy, Susan E. Rice—National Security Advisor to President Barack Obama and US Ambassador to the United Nations—reveals her surprising story with unflinching candor in this New York Times bestseller. Mother, wife, scholar, diplomat, and fierce champion of American interests and values, Susan Rice powerfully connects the personal and the professional. Taught early, with tough love, how to compete and excel as an African American woman in settings where people of color are few, Susan now shares the wisdom she learned along the way. Laying bare the family struggles that shaped her early life in Washington, DC, she also examines the ancestral legacies that influenced her. Rice's elders—immigrants on one side and descendants of slaves on the other—had high expectations that each generation would rise. And rise they did, but not without paying it forward—in uniform and in the pulpit, as educators, community leaders, and public servants. Susan too rose rapidly. She served throughout the Clinton administration, becoming one of the nation's youngest assistant secretaries of state and, later, one of President Obama's most trusted advisors. Rice provides an insider's account of some of the most complex issues confronting the United States over three decades, ranging from "Black Hawk Down" in Somalia to the genocide in Rwanda and the East Africa embassy bombings in the late 1990s, and from conflicts in Libya and Syria to the Ebola epidemic, a secret channel to Iran, and the opening to Cuba during the Obama years. With unmatched insight and characteristic bluntness, she reveals previously untold stories behind recent national security challenges, including confrontations with Russia and China, the war against ISIS, the struggle to contain the fallout from

Edward Snowden's NSA leaks, the U.S. response to Russian interference in the 2016 election, and the surreal transition to the Trump administration. Although you might think you know Susan Rice—whose name became synonymous with Benghazi following her Sunday news show appearances after the deadly 2012 terrorist attacks in Libya—now, through these pages, you truly will know her for the first time. Often mischaracterized by both political opponents and champions, Rice emerges as neither a villain nor a victim, but a strong, resilient, compassionate leader. Intimate, sometimes humorous, but always candid, *Tough Love* makes an urgent appeal to the American public to bridge our dangerous domestic divides in order to preserve our democracy and sustain our global leadership.

Nevirapine and the Quest to End Pediatric AIDS - Rebecca J. Anderson 2014-01-23

In 1999, investigators announced that a single dose of nevirapine, a new antiviral drug, could stop the spread of the AIDS virus from infected mothers to their newborn babies. It was a discovery that "changed the face of AIDS globally" but it came at a high price, after years of scientific research, political conflict, social unrest and the loss of many thousands of lives. This book is the historical account of pediatric AIDS from the first reported cases in the early 1980s to the first effective treatments in the 1990s and then to the prevention of HIV infections altogether. It also includes the firsthand accounts and experiences of children infected with HIV, their families and the physicians who treated them, as well as the scientists who sought to understand the virus, discovered nevirapine's unique properties, and worked tirelessly to get it to the patients who needed it.