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Heat Transfer Virtual Lab for Students and Engineers - Ella Fridman 2014-09-15
Laboratory experiments are a vital part of engineering education, which historically were considered impractical for distance learning. This book presents a guide for the practical employment of a heat transfer virtual lab for students and engineers. Inside, the authors have detailed this virtual lab which is designed and can implement a real-time, robust, and scalable software system that provides easy access to lab equipment anytime and anywhere over the Internet. They introduce and explain LabVIEW in easy-to-understand language. LabVIEW is a proprietary software tool by National Instruments, and can be used to develop fairly complex instrumentation systems (measurement and control). Fridman and Mahajan combined Internet capabilities with traditional laboratory exercises to create an ef cient environment to carry out interactive, on line lab experiments. Thus, the virtual lab can be used from a remote location as a part of a distance learning strategy. With this book, you'll be capable of executing VIs (Virtual Instruments) speci cally developed for the experiment in question, providing you with great ability to control the remote instrument and to receive and present the desired experimental data.

Advanced Machine Learning Technologies and Applications - Aboul Ella Hassanien 2014-11-04
This book constitutes the refereed proceedings of the Second International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2014, held in Cairo, Egypt, in November 2014. The 49 full papers presented were carefully reviewed and selected from 101 initial submissions. The papers are organized in topical sections on machine learning in Arabic text recognition and assistive technology; recommendation systems for cloud services; machine learning in watermarking/authentication and virtual machines; features extraction and classification; rough/fuzzy sets and applications; fuzzy multi-criteria decision making; Web-based application and case-based reasoning construction; social networks and big data sets.

Cotton Production and Uses - Shakeel Ahmad 2020-03-05
This book provides a comprehensive and systematic overview of the recent developments in cotton production and processing, including a number of genetic approaches, such as GM cotton for pest resistance, which have been hotly debated in recent decades. In the era of climate

change, cotton is facing diverse abiotic stresses such as salinity, drought, toxic metals and environmental pollutants. As such, scientists are developing stress-tolerant cultivars using agronomic, genetic and molecular approaches. Gathering papers on these developments, this timely book is a valuable resource for a wide audience, including plant scientists, agronomists, soil scientists, botanists, environmental scientists and extention workers.

Oil Well Testing Handbook - Amanat Chaudhry 2004-01-24
Oil Well Testing Handbook is a valuable addition to any reservoir engineer's library, containing the basics of well testing methods as well as all of the latest developments in the field. Not only are "evergreen" subjects, such as layered reservoirs, naturally fractured reservoirs, and wellbore effects, covered in depth, but newer developments, such as well testing for horizontal wells, are covered in full chapters. Covers real-life examples and cases The most up-to-date information on oil well testing available The perfect reference for the engineer or textbook for the petroleum engineering student

Advanced Reservoir Management and Engineering Tarek Ahmed 2011-09-28
Chapter 1. Fundamentals of Well Testing -- Chapter 2. Decline and Type-Curves Analysis -- Chapter 3. Water Influx -- Chapter 4. Unconventional Gas Reservoirs -- Chapter 5. Performance of Oil Reservoirs -- Chapter 6. Predicting Oil Reservoir Performance -- Chapter 7. Fundamentals of Enhanced Oil Recovery -- Chapter 8. Economic Analysis -- Chapter 9. Analysis of Fixed Capital Investments -- Chapter 10. Advanced Evaluation Approaches -- Chapter 11. Professionalism and Ethics.

Low Salinity and Engineered Water Injection for Sandstone and Carbonate Reservoirs Emad Walid Al Shalabi 2017-06-14
Low Salinity and Engineered Water Injection for Sandstones and Carbonate Reservoirs provides a first of its kind review of the low salinity and engineered water injection (LSWI/EWI) techniques for today's more complex enhanced oil recovery methods. Reservoir engineers today are challenged in the design and physical mechanisms behind low salinity injection projects, and to date, the research is currently only located in numerous journal locations. This reference helps readers overcome these challenging issues with explanations on models, experiments, mechanism analysis, and field applications involved in low salinity and engineered water. Covering significant laboratory, numerical, and field studies, lessons learned are also highlighted along with key areas for future research in this fast-growing area of the oil and gas industry. After an introduction to its techniques, the initial chapters review the main experimental findings and explore the mechanisms behind the impact of LSWI/EWI on oil recovery. The book then moves on to the critical area of modeling and simulation, discusses the geochemistry of LSWI/EWI processes, and applications of LSWI/EWI techniques in the field, including the authors' own recommendations based on their extensive experience. It is an essential reference for professional reservoir and field engineers, researchers and students working on LSWI/EWI and seeking to apply these methods for increased oil recovery. Teaches users how to understand the various mechanisms contributing to incremental oil recovery using low salinity and engineering water injection (LSWI/EWI) in sandstones and carbonates Balances guidance between designing laboratory experiments, to applying the LSWI/EWI techniques at both pilot-scale and full-field-scale for real-world operations Presents state-of-the-art approaches to simulation and modeling of LSWI/EWI

Oil Reservoir Engineering Sylvain Joseph Pirson 1977

Advances in Production Management Systems. The Path to Digital Transformation and Innovation of Production Management Systems - Bojan Lalic 2020-08-25
The two-volume set IFIP AICT 591 and 592 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2020, held in Novi Sad, Serbia, in August/September 2020. The 164 papers presented were carefully reviewed and selected from 199 submissions. They discuss globally pressing issues in smart manufacturing, operations management, supply chain management, and Industry 4.0. The papers are organized in the following topical sections: Part I: advanced modelling, simulation and

data analytics in production and supply networks; advanced, digital and smart manufacturing; digital and virtual quality management systems; cloud-manufacturing; cyber-physical production systems and digital twins; IIOT interoperability; supply chain planning and optimization; digital and smart supply chain management; intelligent logistics networks management; artificial intelligence and blockchain technologies in logistics and DSN; novel production planning and control approaches; machine learning and artificial intelligence; connected, smart factories of the future; manufacturing systems engineering: agile, flexible, reconfigurable; digital assistance systems: augmented reality and virtual reality; circular products design and engineering; circular, green, sustainable manufacturing; environmental and social lifecycle assessments; socio-cultural aspects in production systems; data-driven manufacturing and services operations management; product-service systems in DSN; and collaborative design and engineering Part II: the Operator 4.0: new physical and cognitive evolutionary paths; digital transformation approaches in production management; digital transformation for more sustainable supply chains; data-driven applications in smart manufacturing and logistics systems; data-driven services: characteristics, trends and applications; the future of lean thinking and practice; digital lean manufacturing and its emerging practices; new reconfigurable, flexible or agile production systems in the era of industry 4.0; operations management in engineer-to-order manufacturing; production management in food supply chains; gastronomic service system design; product and asset life cycle management in the circular economy; and production ramp-up strategies for product

2021 International Conference on Recent Advances in Mathematics and Informatics (ICRAMI) - IEEE Staff 2021-09-21
Computer sciences, mathematics

Information Science and Applications - Kuinam J. Kim 2015-02-17
This proceedings volume provides a snapshot of the latest issues encountered in technical convergence and convergences of security technology. It explores how information science is core to most current research, industrial and commercial activities and consists of contributions covering topics including Ubiquitous Computing, Networks and Information Systems, Multimedia and Visualization, Middleware and Operating Systems, Security and Privacy, Data Mining and Artificial Intelligence, Software Engineering, and Web Technology. The proceedings introduce the most recent information technology and ideas, applications and problems related to technology convergence, illustrated through case studies, and reviews converging existing security techniques. Through this volume, readers will gain an understanding of the current state-of-the-art in information strategies and technologies of convergence security. The intended readership are researchers in academia, industry, and other research institutes focusing on information science and technology.

Adaptive and Natural Computing Algorithms - Bartlomiej Beliczynski 2007-07-03
This two volume set constitutes the refereed proceedings of the 8th International Conference on Adaptive and Natural Computing Algorithms, ICANNGA 2007, held in Warsaw, Poland, in April 2007. Coverage in the first volume includes evolutionary computation, genetic algorithms, and particle swarm optimization. The second volume covers neural networks, support vector machines, biomedical signal and image processing, biometrics, computer vision.

Surprise, Kill, Vanish - Annie Jacobsen 2019-05-14
From Pulitzer Prize finalist Annie Jacobsen, the untold USA Today bestselling story of the CIA's secret paramilitary units. Surprise . . . your target. Kill . . . your enemy. Vanish . . . without a trace. When diplomacy fails, and war is unwise, the president calls on the CIA's Special Activities Division, a highly-classified branch of the CIA and the most effective, black operations force in the world. Originally known as the president's guerrilla warfare corps, SAD conducts risky and ruthless operations that have evolved over time to defend America from its enemies. Almost every American president since World War II has asked the CIA to conduct sabotage, subversion and, yes, assassination. With unprecedented access to forty-two men and women who proudly and

secretly worked on CIA covert operations from the dawn of the Cold War to the present day, along with declassified documents and deep historical research, Pulitzer Prize finalist Annie Jacobsen unveils -- like never before -- a complex world of individuals working in treacherous environments populated with killers, connivers, and saboteurs. Despite Hollywood notions of off-book operations and external secret hires, covert action is actually one piece in a colossal foreign policy machine. Written with the pacing of a thriller, Surprise, Kill, Vanish brings to vivid life the sheer pandemonium and chaos, as well as the unforgettable human will to survive and the intellectual challenge of not giving up hope that define paramilitary and intelligence work. Jacobsen's exclusive interviews -- with members of the CIA's Senior Intelligence Service (equivalent to the Pentagon's generals), its counterterrorism chiefs, targeting officers, and Special Activities Division's Ground Branch operators who conduct today's close-quarters killing operations around the world -- reveal, for the first time, the enormity of this shocking, controversial, and morally complex terrain. Is the CIA's paramilitary army America's weaponized strength, or a liability to its principled standing in the world? Every operation reported in this book, however unsettling, is legal.

Advanced Trauma Life Support - 1994

Advanced Reservoir Engineering - Tarek Ahmed 2011-03-15
Advanced Reservoir Engineering offers the practicing engineer and engineering student a full description, with worked examples, of all of the kinds of reservoir engineering topics that the engineer will use in day-to-day activities. In an industry where there is often a lack of information, this timely volume gives a comprehensive account of the physics of reservoir engineering, a thorough knowledge of which is essential in the petroleum industry for the efficient recovery of hydrocarbons. Chapter one deals exclusively with the theory and practice of transient flow analysis and offers a brief but thorough hands-on guide to gas and oil well testing. Chapter two documents water influx models and their practical applications in conducting comprehensive field

studies, widely used throughout the industry. Later chapters include unconventional gas reservoirs and the classical adaptations of the material balance equation. * An essential tool for the petroleum and reservoir engineer, offering information not available anywhere else * Introduces the reader to cutting-edge new developments in Type-Curve Analysis, unconventional gas reservoirs, and gas hydrates * Written by two of the industry's best-known and respected reservoir engineers

Quantile Regression - Roger Koenker 2005-05-05
Quantile regression is gradually emerging as a unified statistical methodology for estimating models of conditional quantile functions. By complementing the exclusive focus of classical least squares regression on the conditional mean, quantile regression offers a systematic strategy for examining how covariates influence the location, scale and shape of the entire response distribution. This monograph is the first comprehensive treatment of the subject, encompassing models that are linear and nonlinear, parametric and nonparametric. The author has devoted more than 25 years of research to this topic. The methods in the analysis are illustrated with a variety of applications from economics, biology, ecology and finance. The treatment will find its core audiences in econometrics, statistics, and applied mathematics in addition to the disciplines cited above.

Bengali Language Handbook - Punya Sloka Ray 1966

Beyond Convergence - National Defense University (US) 2017-08-24
The world order built upon the Peace of Westphalia is faltering. State fragility or failure are endemic, with no fewer than one-third of the states in the United Nations earning a "high warning"-or worse-in the Fragile States Index, and an equal number suffering a decline in sustainability over the past decade.1 State weakness invites a range of illicit actors, including international terrorists, globally networked insurgents, and transnational criminal organizations (TCOs). The presence and operations of these entities keep states weak and incapable of effective governance, and limit the possibility of fruitful partnerships with the United States and its allies. Illicit organizations and their networks fuel

corruption, eroding state legitimacy among the governed, and sowing doubt that the state is a genuine guardian of the public interest. These networks can penetrate the state, leading to state capture, and even criminal sovereignty.2 A growing number of weak and corrupt states is creating gaping holes in the global rule-based system of states that we depend on for our security and prosperity. Indeed, the chapters of this book suggest the emergence of a highly adaptive and parasitic alternative ecosystem, based on criminal commerce and extreme violence, with little regard for what we commonly conceive of as the public interest or the public good. The last 10 years have seen unprecedented growth in interactivity between and among a wide range of illicit networks, as well as the emergence of hybrid organizations that use methods characteristic of both terrorist and criminal groups. In a convergence of interests, terrorist organizations collaborate with cartels, and trafficking organizations collude with insurgents. International terrorist organizations, such as al-Qaeda and Hezbollah, engage energetically in transnational crime to raise funds for their operations. Prominent criminal organizations like Los Zetas in Mexico and D-Company in Pakistan have adopted the symbolic violence of terrorists-the propaganda of the deed-to secure their "turf." And networked insurgents, such as the Islamic State of Iraq and the Levant (ISIL), the Revolutionary Armed Forces of Colombia (FARC), and the Liberation Tigers of Tamil Eelam (LTTE), have adopted the techniques of both crime and terror.

Advances in Lightweight Materials and Structures - A. Praveen Kumar 2020-10-13
This book presents select proceedings of the International Conference on Advanced Lightweight Materials and Structures (ICALMS) 2020, and discusses the triad of processing, structure, and various properties of lightweight materials. It provides a well-balanced insight into materials science and mechanics of both synthetic and natural composites. The book includes topics such as nano composites for lightweight structures, impact and failure of structures, biomechanics and biomedical engineering, nanotechnology and micro-engineering, tool design and manufacture for producing lightweight components, joining techniques for lightweight structures for similar and dissimilar materials, design for manufacturing, reliability and safety, robotics, automation and control, fatigue and fracture mechanics, and friction stir welding in lightweight sandwich structures. The book also discusses latest research in composite materials and their applications in the field of aerospace, construction, wind energy, automotive, electronics and so on. Given the range of topics covered, this book can be a useful resource for beginners, researchers and professionals interested in the wide ranging applications of lightweight structures.

Well Performance - Michael Golan 1987-08-31

Sentiment Analysis and Opinion Mining - Bing Liu 2012
Sentiment analysis and opinion mining is the field of study that analyzes people's opinions, sentiments, evaluations, attitudes, and emotions from written language. It is one of the most active research areas in natural language processing and is also widely studied in data mining, Web mining, and text mining. In fact, this research has spread outside of computer science to the management sciences and social sciences due to its importance to business and society as a whole. The growing importance of sentiment analysis coincides with the growth of social media such as reviews, forum discussions, blogs, micro-blogs, Twitter, and social networks. For the first time in human history, we now have a huge volume of opinionated data recorded in digital form for analysis.Sentiment analysis systems are being applied in almost every business and social domain because opinions are central to almost all human activities and are key influencers of our behaviors. Our beliefs and perceptions of reality, and the choices we make, are largely conditioned on how others see and evaluate the world. For this reason, when we need to make a decision we often seek out the opinions of others. This is true not only for individuals but also for organizations.This book is a comprehensive introductory and survey text. It covers all important topics and the latest developments in the field with over 400 references. It is suitable for students, researchers and practitioners who are interested in social media analysis in general and sentiment analysis

in particular. Lecturers can readily use it in class for courses on natural language processing, social media analysis, text mining, and data mining. Lecture slides are also available online.Table of Contents: Preface / Sentiment Analysis: A Fascinating Problem / The Problem of Sentiment Analysis / Document Sentiment Classification / Sentence Subjectivity and Sentiment Classification / Aspect-Based Sentiment Analysis / Sentiment Lexicon Generation / Opinion Summarization / Analysis of Comparative Opinions / Opinion Search and Retrieval / Opinion Spam Detection / Quality of Reviews / Concluding Remarks / Bibliography / Author Biography

Layers of Time - Paul B. Henze 2000
LC copy signed by author: "To: Tom Kane -- good friend and always helpful critic who has contributed a good deal to this book -- Paul B. Henze 29 August 2000."

Well Test Analysis - Dominique Bourdet 2002-08-21
This book on well test analysis, and the use of advanced interpretation models is volume 3 in the series Handbook of Petroleum Exploration and Production. The chapters in the book are: Principles of Transient Testing, Analysis Methods, Wellbore Conditions, Effect of Reservoir Heterogeneities on Well Responses, Effect of Reservoir Boundaries on Well Responses, Multiple Well Testing, Application to Gas Reservoirs, Application to Multiphase Reservoirs, Special Tests, Practical Aspects of Well Test Interpretation.

Hydrocarbon Phase Behavior Tarek H. Ahmed 1989

Working Guide to Reservoir Rock Properties and Fluid Flow - Tarek Ahmed 2009-08-24
Working Guide to Reservoir Rock Properties and Fluid Flow provides an introduction to the properties of rocks and fluids that are essential in petroleum engineering. The book is organized into three parts. Part 1 discusses the classification of reservoirs and reservoir fluids. Part 2 explains different rock properties, including porosity, saturation, wettability, surface and interfacial tension, permeability, and compressibility. Part 3 presents the mathematical relationships that describe the flow behavior of the reservoir fluids. The primary reservoir characteristics that must be considered include: types of fluids in the reservoir, flow regimes, reservoir geometry, and the number of flowing fluids in the reservoir. Each part concludes with sample problems to test readers knowledge of the topic covered. Critical properties of reservoir rocks Fluid (oil, water, and gas) PVT relationships Methods to calculate hydrocarbons initially in place Dynamic techniques to assess reservoir performance Parameters that impact well/reservoir performance over time

The Wrong Hands - Ann Larabee 2015
"A fascinating, timely, and often disturbing history of how underground do-it-yourself weapons manuals have influenced violent radicalism, and how the state has responded"--

Petrophysics - Erle C. Donaldson 2004-01-24
The petroleum geologist and engineer must have a working knowledge of petrophysics in order to find oil reservoirs, devise the best plan for getting it out of the ground, then start drilling. This book offers the engineer and geologist a manual to accomplish these goals, providing much-needed calculations and formulas on fluid flow, rock properties, and many other topics that are encountered every day. New updated material covers topics that have emerged in the petrochemical industry since 1997. Contains information and calculations that the engineer or geologist must use in daily activities to find oil and devise a plan to get it out of the ground Filled with problems and solutions, perfect for use in undergraduate, graduate, or professional courses Covers real-life problems and cases for the practicing engineer

Applied Petroleum Reservoir Engineering - Benjamin Cole Craft 1991
Basic level textbook covering concepts and practical analytical techniques of reservoir engineering.

Optical Networks - Hussein T. Mouftah 2003
Special emphasis has been given to the design of meshed, middle-sized, and wavelength-routed networks with dynamic traffic in the optical domain, such as the next-generation Metropolitan Area Network.".

Waterflooding - G. Paul Willhite 1986
Waterflooding begins with understanding the basic principles of immiscible displacement, then presents a systematic procedure for designing a waterflood.

Research Anthology on Artificial Neural Network Applications - Management Association, Information Resources 2021-07-16
Artificial neural networks (ANNs) present many benefits in analyzing complex data in a proficient manner. As an effective and efficient problem-solving method, ANNs are incredibly useful in many different fields. From education to medicine and banking to engineering, artificial neural networks are a growing phenomenon as more realize the plethora of uses and benefits they provide. Due to their complexity, it is vital for researchers to understand ANN capabilities in various fields. The Research Anthology on Artificial Neural Network Applications covers critical topics related to artificial neural networks and their multitude of applications in a number of diverse areas including medicine, finance, operations research, business, social media, security, and more. Covering everything from the applications and uses of artificial neural networks to deep learning and non-linear problems, this book is ideal for computer scientists, IT specialists, data scientists, technologists, business owners, engineers, government agencies, researchers, academicians, and students, as well as anyone who is interested in learning more about how artificial neural networks can be used across a wide range of fields.

Properties of Petroleum Reservoir Fluids - Emil J. Burcik 1978

Advances in Signal Processing and Intelligent Recognition Systems - Sabu M. Thampi 2020-05-01
This book constitutes the refereed proceedings of the 5th International Symposium on Advances in Signal Processing and Intelligent Recognition Systems, SIRS 2019, held in Trivandrum, India, in December 2019. The 19 revised full papers and 8 revised short papers presented were carefully reviewed and selected from 63 submissions. The papers cover wide research fields including information retrieval, human-computer interaction (HCI), information extraction, speech recognition.

Reservoir Engineering Handbook Tarek H. Ahmed 2001
The job of any reservoir engineer is to maximize production from a field to obtain the best economic return. To do this, the engineer must study the behavior and characteristics of a petroleum reservoir to determine the course of future development and production that will maximize the profit. Fluid flow, rock properties, water and gas coning, and relative permeability are only a few of the concepts that a reservoir engineer must understand to do the job right, and some of the tools of the trade are water influx calculations, lab tests of reservoir fluids, and oil and gas performance calculations. Two new chapters have been added to the first edition to make this book a complete resource for students and professionals in the petroleum industry: Principles of Waterflooding, Vapor-Liquid Phase Equilibria.

Processing of Heavy Crude Oils - Ramasamy Marappa Gounder 2019-12-18

Scientific Basis for Ayurvedic Therapies - Lakshmi C. Mishra 2003-09-29
Arguably the oldest form of health care, Ayurveda is often referred to as the "Mother of All Healing." Although there has been considerable scientific research done in this area during the last 50 years, the results of that research have not been adequately disseminated. Meeting the need for an authoritative, evidence-based reference, Scientific Ba

Global Chicago - Charles Madigan 2004
Once known for gangsters and meatpacking, Chicago was virtually synonymous with the rough and tumble side of the industrial era. Today, however, Chicago has outgrown even national prominence to become a truly global city--one of the most famous and most important in the world. Global Chicago is the first book to describe Chicago's transformation from industrial powerhouse to global metropolis. It will change the way both Chicagoans and the rest of the world view the city. Chicago has a long history of adaptation. Having gone from a swampy trading post to a major industrial center, Chicago also rebuilt itself in the

wake of a devastating fire to become one of the world's great architectural showcases. While many former industrial centers became mere shadows of themselves, Chicago succeeded by transformed itself again. The Chicago of today is a hub for corporate headquarters like those of Motorola, Boeing, and United Airlines. It is a transportation and information crossroads, with the busiest airport in North America as well as the most internet traffic. With over 120 foreign language newspapers, it is also home to vast and vibrant immigrant communities, a focus of global services, and a center for global law and medicine. Essay authors include professors from top institutions, veteran journalists, experts on labor and government, and the presidents of the Council on Foreign Relations and the Federal Reserve Bank of Chicago. By drawing on the expertise of the city's leading players, Global Chicago offers unique insights into the city's global assets and its economic, social, intellectual, and cultural links to the world as seen from an insider's perspective. Their essays probe deeply into the financial and governmental infrastructure crucial for success by reflecting on specific lessons to be learned from the example of worldwide Chicago businesses. Amidst the ruthless international competition that characterizes globalization, Chicago makes decisions today that will affect both its success and character for the coming century. Global Chicago serves simultaneously as a catalog of achievements that would make anyone proud to call the city home and a timely counsel for ensuring its future as a world leader.

AI and Learning Systems Konstantinos Kyprianidis 2021-02-17 Over the last few years, interest in the industrial applications of AI and learning systems has surged. This book covers the recent developments and provides a broad perspective of the key challenges that characterize the field of Industry 4.0 with a focus on applications of AI. The target audience for this book includes engineers involved in automation system design, operational planning, and decision support. Computer science practitioners and industrial automation platform developers will also benefit from the timely and accurate information provided in this work. The book is organized into two main sections comprising 12 chapters overall: •Digital Platforms and Learning Systems •Industrial Applications of AI

Well Test Design & Analysis - George Stewart 2011 Petroleum engineers face the daily challenges of designing and testing wells. Finding the right technical data guide for conducting these tasks can be daunting, and so renowned petroleum engineer George Stewart has written the comprehensive volume Well Test Design & Analysis, filled with advanced information unparalleled on a variety of wellbore topics. From ascertaining accurate reservoir descriptions, to the intricacies of designing a horizontal well program, the author covers every topic in detail. The volume includes a CD containing chapters 16 - 20.

Equations of State and PVT Analysis Tarek Ahmed 2016-03-02 Understanding the properties of a reservoir's fluids and creating a successful model based on lab data and calculation are required for every reservoir engineer in oil and gas today, and with reservoirs becoming more complex, engineers and managers are back to reinforcing the fundamentals. PVT (pressure-volume-temperature) reports are one way to achieve better parameters, and Equations of State and PVT Analysis, 2nd Edition, helps engineers to fine tune their reservoir problem-solving skills and achieve better modeling and maximum asset development. Designed for training sessions for new and existing engineers, Equations of State and PVT Analysis, 2nd Edition, will prepare reservoir engineers for complex hydrocarbon and natural gas systems with more sophisticated EOS models, correlations and examples from the hottest locations around the world such as the Gulf of Mexico, North Sea and China, and Q&A at the end of each chapter. Resources are maximized with this must-have reference. Improve with new material on practical applications, lab analysis, and real-world sampling from wells to gain better understanding of PVT properties for crude and natural gas Sharpen your reservoir models with added content on how to tune EOS parameters accurately Solve more unconventional problems with field examples on phase behavior characteristics of shale and heavy oil

Civilian Jihad M. Stephan 2009-12-07 This book examines the role of nonviolent civil resistance in challenging

tyranny and promoting democratic-self rule in the greater Middle East using case studies and analyses of how religion, youth, women, technology and external actors have influenced the outcome of civil resistance in the region.