

# Download Ebook Data Source Solutions Free Download Pdf

Open-source Solutions in Education Interoperability and Open-Source Solutions for the Internet of Things Open Source Solutions for Knowledge Management and Technological Ecosystems Applications of Evolutionary Computation Heat Conduction Using Greens Functions Migration of Radionuclides Through Sorbing Media Analytical Solutions Empirical Studies of Programmers Network Security, Firewalls and VPNs Advanced Technologies for Microfinance: Solutions and Challenges InfoWorld Interoperability and Open-Source Solutions for the Internet of Things On the Use of Potential Theory for Thermal Modeling in Metal Cutting Pro Freeware and Open Source Solutions for Business Service-Oriented Computing--ICSOC 2013 Workshops Network Security, Firewalls, and VPNs Evaluation of Quality Assurance/quality Control Data Collected by the U.S. Geological Survey for Water-quality Activities at the Idaho National Engineering Laboratory, Idaho, 1994 Through 1995 Smoothing and Decay Estimates for Nonlinear Diffusion Equations Case-Based Reasoning Research and Development Innovations in Computer Science and Engineering Working with MEG Information Security Management Handbook, Fifth Edition Information Security Management Handbook on CD-ROM, 2006 Edition The e-Government Development Discourse Ultra-Wideband, Short-Pulse Electromagnetics 5 Cloud Computing Web 2.0 Contamination of Groundwaters Fundamentals of Gas Reservoir Engineering Threat Forecasting Social E-Enterprise: Value Creation through ICT Expert One-on-One J2EE Development without EJB Information Security Management Handbook, Sixth Edition Evaluation of Quality-assurance/quality-control Data Collected by the U.S. Geological Survey from Wells and Springs Between the Southern Boundary of the Idaho National Engineering and Environmental Laboratory and the Hagerman Area, Idaho, 1989 Through 1995 Principles of Modern Grinding Technology Powertrain Development with Artificial Intelligence Surface Engineering of Light Alloys CISSP (ISC)2 Certified Information Systems Security Professional Official Study Guide Encyclopedia of Cloud Computing (ISC)2 CISSP Certified Information Systems Security Professional Official Study Guide InfoWorld

Open-source Solutions in Education Dec 27 2022

*Powertrain Development with Artificial Intelligence* Jan 24 2020 The variety of future powertrain concepts has drastically increased the development cost for automotive manufactures. Profitable investment requires a significantly leaner and efficient powertrain development process. Traditional methods of test and model based development need to be assisted by big data and data analytics. For this purpose, a valuable tool is available at the right time - artificial intelligence (AI). But what does AI really mean in a narrower sense? What concepts lie behind it? And how are the methods and algorithms transferable to powertrain applications? For the first time, this book aims to bridge the gap between automotive engineering and computer science, by illuminating the complexity of current AI concepts and demystifying it for powertrain applications. By elaborating on work processes, it shows how AI could be implemented and how completely novel methods can help us reshape the future of mobility. Target groups: Engineers in the field of powertrain development Engineers & computer scientists in the field of artificial intelligence Development departments of the automotive industry Suppliers, service providers of the automotive industry, IT industry (AI experts, start-ups etc.) Universities and research institutions All interested readers with technical background knowledge The author: Dr. Aras Mirfendreski has developed into an engine-expert throughout the German and international scientific landscape (studied at RWTH Aachen University, doctorate at Audi AG). Through his experience as a powertrain developer at Stuttgart FKFS for various OEMs as well as his activities as a senior program manager at Toyota, his developments always thrive on the transfer of state-of-the-art methods into corporate structures. Today, he serves as Vice President Engine R&D at Aquarius Engines and is also an AI expert, keynote speaker and consultant on artificial intelligence topics.

*Encyclopedia of Cloud Computing* Oct 21 2019 The Encyclopedia of Cloud Computing provides IT professionals, educators, researchers and students with a compendium of cloud computing knowledge. Authored by a spectrum of subject matter experts in industry and academia, this unique publication, in a single volume, covers a wide range of cloud computing topics, including technological trends and developments, research opportunities, best practices, standards, and cloud adoption. Providing multiple perspectives, it also addresses questions that stakeholders might have in the context of development, operation, management, and use of clouds. Furthermore, it examines cloud computing's impact now and in the future. The encyclopedia presents 56 chapters logically organized into 10 sections. Each chapter covers a major topic/area with cross-references to other chapters and contains tables, illustrations, side-bars as appropriate. Furthermore, each chapter presents its summary at the beginning and backend material, references and additional resources for further information.

Evaluation of Quality Assurance/quality Control Data Collected by the U.S. Geological Survey for Water-quality Activities at the Idaho National Engineering Laboratory, Idaho, 1994 Through 1995 Sep 12 2021

**Expert One-on-One J2EE Development without EJB** May 28 2020 What is this book about? Expert One-on-One J2EE Development without EJB shows Javadevelopers and architects how to build robust J2EE applications without having to use Enterprise JavaBeans (EJB). This practical, code-intensive guide provides best practices for using simpler and more effective methods and tools, including JavaServer pages, servlets, and lightweight frameworks. What does this book cover? The book begins by examining the limits of EJB technology— what it does well and not so well. Then the authors guide you through alternatives to EJB that you can use to create higher quality applications faster and at lower cost — both agile methods as well as new classes of tools that have evolved

over the past few years. They then dive into the details, showing solutions based on the lightweight framework they pioneered on SourceForge — one of the most innovative open source communities. They demonstrate how to leverage practical techniques and tools, including the popular open source Spring Framework and Hibernate. This book also guides you through productive solutions to core problems, such as transaction management, persistence, remoting, and Web tier design. You will examine how these alternatives affect testing, performance, and scalability, and discover how lightweight architectures can slash time and effort on many projects. What will you learn from this book? Here are some details on what you'll find in this book: How to find the simplest and most maintainable architecture for your application Effective transaction management without EJB How to solve common problems in enterprise software development using AOP and Inversion of Control Web tier design and the place of the Web tier in a well-designed J2EE application Effective data access techniques for J2EE applications with JDBC, Hibernate, and JDO How to leverage open source products to improve productivity and reduce custom coding How to design for optimal performance and scalability

*Service-Oriented Computing--ICSOC 2013 Workshops* Nov 14 2021 This book constitutes the revised selected papers of the workshops of the 11th International Conference on Service-Oriented Computing (ICSOC 2013), held in Berlin, Germany, in December 2013. The conference hosted the following five workshops: 3rd International Workshop on Cloud Computing and Scientific Applications (CCSA'13); 1st International Workshop on Cloud Service Brokerage (CSB'13); 1st International Workshop on Pervasive Analytical Service Clouds for the Enterprise and Beyond (PASCEB'13); 9th International Workshop on Semantic Web Enabled Software Engineering (SWESE'13); 9th International Workshop on Engineering Service-Oriented Applications (WESOA'13); and a PhD Symposium, with best papers also being included in this book. The 54 papers included in this volume were carefully reviewed and selected from numerous submissions. They address various topics in the service-oriented computing domain and its emerging applications.

**Principles of Modern Grinding Technology** Feb 23 2020 Principles of Modern Grinding Technology, Second Edition, provides insights into modern grinding technology based on the author's 40 years of research and experience in the field. It provides a concise treatment of the principles involved and shows how grinding precision and quality of results can be improved and costs reduced. Every aspect of the grinding process—techniques, machines and machine design, process control, and productivity optimization aspects—come under the searchlight. The new edition is an extensive revision and expansion of the first edition covering all the latest developments, including center-less grinding and ultra-precision grinding. Analyses of factors that influence grinding behavior are provided and applications are presented assisted by numerical examples for illustration. The new edition of this well-proven reference is an indispensable source for technicians, engineers, researchers, teachers, and students who are involved with grinding processes. Well-proven source revised and expanded by undisputed authority in the field of grinding processes Coverage of the latest developments, such as ultra-precision grinding machine developments and trends in high-speed grinding Numerically worked examples give scale to essential process parameters The book as a whole and in particular the treatment of center-less grinding is considered to be unchallenged by other books

**Open Source Solutions for Knowledge Management and Technological Ecosystems** Oct 25 2022 Over the past decade, diverse organizations have been turning to open source software for their technological needs, in both internal processes management and public interaction. Turning the data generated by organizations ranging from universities to large corporations into usable information has plagued users for years, making open source solutions one of the primary goals of these institutions. Open Source Solutions for Knowledge Management and Technological Ecosystems addresses the issues surrounding the search for each organization's unique data management needs, defining the tools necessary to fulfill them within their technological ecosystem, along with the selection, interoperability, and integration of these tools. This book is ideal for managers, business professionals, software engineers, information technology professionals, and students of business and IT.

**On the Use of Potential Theory for Thermal Modeling in Metal Cutting** Jan 16 2022 Evolving temperature distributions during metal cutting are of major significance. Present analytical models are not capable to predict temperature fields to a sufficient degree. This lack of model validity is caused by the limited mathematical approaches. The present thesis deals with the development of methodologies for thermal modeling based on a class of complex functions termed potential functions. This approach has never been used before for metal cutting applications.

**Applications of Evolutionary Computation** Sep 24 2022 The two volumes LNCS 10199 and 10200 constitute the refereed conference proceedings of the 20th European Conference on the Applications of Evolutionary Computation, EvoApplications 2017, held in Amsterdam, The Netherlands, in April 2017, colocated with the Evo\* 2016 events EuroGP, EvoCOP, and EvoMUSART. The 46 revised full papers presented together with 26 poster papers were carefully reviewed and selected from 108 submissions. EvoApplications 2016 consisted of the following 13 tracks: EvoBAFIN (natural computing methods in business analytics and finance), EvoBIO (evolutionary computation, machine learning and data mining in computational biology), EvoCOMNET (nature-inspired techniques for telecommunication networks and other parallel and distributed systems), EvoCOMPLEX (evolutionary algorithms and complex systems), EvoENERGY (evolutionary computation in energy applications), EvoGAMES (bio-inspired algorithms in games), EvoIASP (evolutionary computation in image analysis, signal processing, and pattern recognition), EvoINDUSTRY (nature-inspired techniques in industrial settings), EvoKNOW (knowledge incorporation in evolutionary computation), EvoNUM (bio-inspired algorithms for continuous parameter optimization), EvoPAR (parallel implementation of evolutionary algorithms), EvoROBOT (evolutionary robotics), EvoSET (nature-inspired algorithms in software engineering and testing), and EvoSTOC (evolutionary algorithms in stochastic and dynamic environments).

*CISSP (ISC)2 Certified Information Systems Security Professional Official Study Guide* Nov 21 2019 CISSP Study Guide - fully updated for the 2015 CISSP Body of Knowledge CISSP (ISC)2 Certified Information Systems Security Professional Official Study Guide, 7th Edition has been completely updated for the latest 2015 CISSP Body of Knowledge. This bestselling Sybex study guide covers 100% of all exam objectives. You'll prepare for the exam smarter and faster with Sybex thanks to expert content, real-world examples, advice on passing each section of the exam, access to the Sybex online interactive learning environment, and much more. Reinforce what you've learned with key topic exam essentials and chapter review questions. Along with the book, you also get access to Sybex's superior online interactive learning environment that includes: Four unique 250 question practice exams to help you identify where you need to study more. Get more than

90 percent of the answers correct, and you're ready to take the certification exam. More than 650 Electronic Flashcards to reinforce your learning and give you last-minute test prep before the exam  
A searchable glossary in PDF to give you instant access to the key terms you need to know for the exam  
Coverage of all of the exam topics in the book means you'll be ready for: Security and Risk Management Asset Security Security Engineering Communication and Network Security Identity and Access Management Security Assessment and Testing Security Operations Software Development Security

*Web 2.0* Nov 02 2020 What can Web 2.0 tools offer educators? *Web 2.0: New Tools, New Schools* provides a comprehensive overview of the emerging Web 2.0 technologies and their use in the classroom and in professional development. Topics include blogging as a natural tool for writing instruction, wikis and their role in project collaboration, podcasting as a useful means of presenting information and ideas, and how to use Web 2.0 tools for professional development. Also included are a discussion of Web 2.0 safety and security issues and a look toward the future of the Web 2.0 movement. *Web 2.0: New Tools, New Schools* is essential reading for teachers, administrators, technology coordinators, and teacher educators.

*Network Security, Firewalls and VPNs* May 20 2022 This fully revised and updated second edition provides a unique, in-depth look at the major business challenges and threats that are introduced when an organization's network is connected to the public Internet. It provides a comprehensive explanation of network security basics, including how hackers access online networks and the use of Firewalls and VPNs to provide security countermeasures. Using examples and exercises, this book incorporates hands-on activities to prepare the reader to disarm threats and prepare for emerging technologies and future attacks. Topics covered include: the basics of network security--exploring the details of firewall security and how VPNs operate; how to plan proper network security to combat hackers and outside threats; firewall configuration and deployment and managing firewall security; and how to secure local and internet communications with a VP. --

**Migration of Radionuclides Through Sorbing Media Analytical Solutions** Jul 22 2022

**Evaluation of Quality-assurance/quality-control Data Collected by the U.S. Geological Survey from Wells and Springs Between the Southern Boundary of the Idaho National Engineering and Environmental Laboratory and the Hagerman Area, Idaho, 1989 Through 1995** Mar 26 2020

*Information Security Management Handbook, Fifth Edition* Apr 07 2021 Since 1993, the Information Security Management Handbook has served not only as an everyday reference for information security practitioners but also as an important document for conducting the intense review necessary to prepare for the Certified Information System Security Professional (CISSP) examination. Now completely revised and updated and in its fifth edition, the handbook maps the ten domains of the Information Security Common Body of Knowledge and provides a complete understanding of all the items in it. This is a ...must have... book, both for preparing for the CISSP exam and as a comprehensive, up-to-date reference.

*Contamination of Groundwaters* Oct 01 2020 International experts have contributed key chapters to this major work on groundwater contamination. Section 1: Methodology and Modeling deals with both organic and inorganic contaminants, including those from agricultural operations. Section 2: Case Studies presents contamination scenarios with both inorganic and organic chemicals including agriculturally-related constituents, such as the nitrates. This important new publication is a welcome addition to the literature and will enhance recent information on methodology, modeling and real-world situations. It is of interest to scientists and planners in local and national government; environmental chemists, geochemists, geologists, and health and safety officers; river authorities; hydrologists; and the mining and land reclamation industries.

*Cloud Computing* Dec 03 2020 *Cloud Computing, Second Edition* accounts for the many changes to the then-emerging business model and technology paradigm.

**Network Security, Firewalls, and VPNs** Oct 13 2021 -Identifies how to secure local and Internet communications with a VPN.

*Empirical Studies of Programmers* Jun 21 2022 Offers information on past and future conferences of the Empirical Studies of Programmers (ESP), provided by the ESP Design Team at the University of Nebraska at Lincoln. Includes indexes of papers and lists of participants, as well as photographs. Links to related sites.

**Information Security Management Handbook, Sixth Edition** Apr 26 2020 Considered the gold-standard reference on information security, the Information Security Management Handbook provides an authoritative compilation of the fundamental knowledge, skills, techniques, and tools required of today's IT security professional. Now in its sixth edition, this 3200 page, 4 volume stand-alone reference is organized under the CISSP Common Body of Knowledge domains and has been updated yearly. Each annual update, the latest is Volume 6, reflects the changes to the CBK in response to new laws and evolving technology.

**Advanced Technologies for Microfinance: Solutions and Challenges** Apr 19 2022 *Advanced Technologies for Microfinance: Solutions and Challenges* is the first book to systematically address technology's impact on microfinance. It discusses a wide variety of technology applications that will define the next generation of the microfinance movement and it addresses the tough questions surrounding technology in microfinance. For instance, what are the disadvantages of technology-enabled microfinance and what will it mean for the inclusiveness and empowerment of the service? This dynamic collection is a must-have for anyone interested in microfinance, whether you are a donor, lender, or investor.

**Pro Freeware and Open Source Solutions for Business** Dec 15 2021 *Pro Freeware and Open Source Solutions for Business* is a practical guide for the small business owner seeking viable alternative to expensive commercial software packages and subscriptions. This comprehensive look at the powerful alternatives to expensive proprietary software provides an illustrated overview of no-cost software solutions. In this book you will find free and open source solutions for office productivity, PDF creation, accounting, image editing and graphic design, desktop publishing, 3D design, CAD, audio and video editing, website and blog creation, customer relationship management, point of sale, networking and security, and alternatives to the Windows and Macintosh operating systems. This guide helps free the cost-conscious business owner from the bonds of expensive proprietary software by exploring the free and powerful alternatives that exist. You can save a substantial sums of money by replacing just a few commercial software titles with free and open source solutions. Learn how with *Pro Freeware and Open Source Solutions for Business* today.

**Heat Conduction Using Greens Functions** Aug 23 2022 Since its publication more than 15 years ago, *Heat Conduction Using Green's Functions* has become the consummate heat conduction

treatise from the perspective of Green's functions-and the newly revised Second Edition is poised to take its place. Based on the authors' own research and classroom experience with the material, this book organizes the so

**InfoWorld** Aug 19 2019 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

**Working with MEG** May 08 2021

**Case-Based Reasoning Research and Development** Jul 10 2021 This book constitutes the proceedings of the 29th International Conference on Case-Based Reasoning, ICCBR 2021, which took place in Salamanca, Spain, during September 13-16, 2021. The 21 papers presented in this volume were carefully reviewed and selected from 85 submissions. They deal with AI and related research focusing on comparison and integration of CBR with other AI methods such as deep learning architectures, reinforcement learning, lifelong learning, and eXplainable AI (XAI).

**Information Security Management Handbook on CD-ROM, 2006 Edition** Mar 06 2021 The need for information security management has never been greater. With constantly changing technology, external intrusions, and internal thefts of data, information security officers face threats at every turn. The Information Security Management Handbook on CD-ROM, 2006 Edition is now available. Containing the complete contents of the Information Security Management Handbook, this is a resource that is portable, linked and searchable by keyword. In addition to an electronic version of the most comprehensive resource for information security management, this CD-ROM contains an extra volume's worth of information that is not found anywhere else, including chapters from other security and networking books that have never appeared in the print editions. Exportable text and hard copies are available at the click of a mouse. The Handbook's numerous authors present the ten domains of the Information Security Common Body of Knowledge (CBK) ®. The CD-ROM serves as an everyday reference for information security practitioners and an important tool for any one preparing for the Certified Information System Security Professional (CISSP) ® examination. New content to this Edition: Sensitive/Critical Data Access Controls Role-Based Access Control Smartcards A Guide to Evaluating Tokens Identity Management-Benefits and Challenges An Examination of Firewall Architectures The Five "W's" and Designing a Secure Identity Based Self-Defending Network Maintaining Network Security-Availability via Intelligent Agents PBX Firewalls: Closing the Back Door Voice over WLAN Spam Wars: How to Deal with Junk E-Mail Auditing the Telephony System: Defenses against Communications Security Breaches and Toll Fraud The "Controls" Matrix Information Security Governance

**Threat Forecasting** Jul 30 2020 Drawing upon years of practical experience and using numerous examples and illustrative case studies, Threat Forecasting: Leveraging Big Data for Predictive Analysis discusses important topics, including the danger of using historic data as the basis for predicting future breaches, how to use security intelligence as a tool to develop threat forecasting techniques, and how to use threat data visualization techniques and threat simulation tools. Readers will gain valuable security insights into unstructured big data, along with tactics on how to use the data to their advantage to reduce risk. Presents case studies and actual data to demonstrate threat data visualization techniques and threat simulation tools Explores the usage of kill chain modelling to inform actionable security intelligence Demonstrates a methodology that can be used to create a full threat forecast analysis for enterprise networks of any size

**Ultra-Wideband, Short-Pulse Electromagnetics 5** Jan 04 2021 The fifth Conference on Ultra-Wideband Short-Pulse Electromagnetics was held in Scotland from 30 May to 2 June 2000 at the Edinburgh International Conference Centre. It formed part of the EUROEM 2000 International Conference under the chairmanship of David Parkes (DERA, Malvern) and Paul Smith (University of Dundee). It continued the series of international conferences that were held first at the Polytechnic University, Brooklyn, New York in 1992 and 1994, then in Albuquerque, New Mexico in 1996 (as part of AMEREM '96) and more recently in Tel-Aviv, Israel in 1998 (as part of EUROEM '98). The purpose of these meetings is to focus on advanced technologies for the generation, radiation and detection of ultra-wideband short pulse signals, taking into account their propagation, scattering from and coupling to targets of interest; to report on developments in supporting mathematical and numerical methods; and to describe current and potential future applications of the technology.

**Social E-Enterprise: Value Creation through ICT** Jun 28 2020 As the importance of the social sector has increased in recent years, utilizing social enterprise aids in the development of knowledge, research, and practices in order to achieve an organizations' goals. Therefore, an understanding of ICT implementation in regards to social enterprise is crucial for effectiveness. Social E-Enterprise: Value Creation through ICT provides research on the understanding of ICT in the social enterprise field as it emerges as a major component of both business model and developed economy. This reference source focuses on the role of information communication technology as it promotes the development of the social sector.

**Innovations in Computer Science and Engineering** Jun 09 2021 The book is a collection of high-quality peer-reviewed research papers presented at the third International Conference on Innovations in Computer Science and Engineering (ICICSE 2015) held at Guru Nanak Institutions, Hyderabad, India during 7 – 8 August 2015. The book discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academic and industry present their original work and exchange ideas, information, techniques and applications in the field of Communication, Computing, and Data Science and Analytics.

**Interoperability and Open-Source Solutions for the Internet of Things** Nov 26 2022 This book constitutes the thoroughly refereed post-conference proceedings of the International Workshop on Interoperability and Open-Source Solutions for the Internet of Things, FP7 OpenIoT Project, held in Conjunction with SoftCOM 2014, in Split, Croatia, in September 2014. The 11 revised full papers presented together with the extended abstracts of 2 keynote talks were carefully reviewed and selected from numerous submissions during two rounds of reviewing and improvement. The papers are organized in topical sections on OpenIoT platform, open platforms and standards, and IoT Applications.

**InfoWorld** Mar 18 2022 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

**Interoperability and Open-Source Solutions for the Internet of Things** Feb 17 2022 This book constitutes the thoroughly refereed post-conference proceedings of the second International Workshop on Interoperability and Open-Source Solutions for the Internet of Things, InterOSS-IoT 2016, held in Stuttgart, Germany, November 7, 2016. The 11 revised full papers presented were carefully reviewed and selected from 17 submissions during two rounds of reviewing. They are organized in topical sections on semantic interoperability, interoperable architectures and platforms,

business models and security, platform performance and applications.

**(ISC)2 CISSP Certified Information Systems Security Professional Official Study Guide** Sep 19 2019 CISSP Study Guide - fully updated for the 2018 CISSP Body of Knowledge CISSP (ISC)2 Certified Information Systems Security Professional Official Study Guide, 8th Edition has been completely updated for the latest 2018 CISSP Body of Knowledge. This bestselling Sybex study guide covers 100% of all exam objectives. You'll prepare for the exam smarter and faster with Sybex thanks to expert content, real-world examples, advice on passing each section of the exam, access to the Sybex online interactive learning environment, and much more. Reinforce what you've learned with key topic exam essentials and chapter review questions. Along with the book, you also get access to Sybex's superior online interactive learning environment that includes: Six unique 150 question practice exams to help you identify where you need to study more. Get more than 90 percent of the answers correct, and you're ready to take the certification exam. More than 700 Electronic Flashcards to reinforce your learning and give you last-minute test prep before the exam A searchable glossary in PDF to give you instant access to the key terms you need to know for the exam Coverage of all of the exam topics in the book means you'll be ready for: Security and Risk Management Asset Security Security Engineering Communication and Network Security Identity and Access Management Security Assessment and Testing Security Operations Software Development Security

*Smoothing and Decay Estimates for Nonlinear Diffusion Equations* Aug 11 2021 This text is concerned with the quantitative aspects of the theory of nonlinear diffusion equations; equations which can be seen as nonlinear variations of the classical heat equation. They appear as mathematical models in different branches of Physics, Chemistry, Biology, and Engineering, and are also relevant in differential geometry and relativistic physics. Much of the modern theory of such equations is based on estimates and functional analysis. Concentrating on a class of equations with nonlinearities of power type that lead to degenerate or singular parabolicity ("equations of porous medium type"), the aim of this text is to obtain sharp a priori estimates and decay rates for general classes of solutions in terms of estimates of particular problems. These estimates are the building blocks in understanding the qualitative theory, and the decay rates pave the way to the fine study of asymptotics. Many technically relevant questions are presented and analyzed in detail. A systematic picture of the most relevant phenomena is obtained for the equations under study, including time decay, smoothing, extinction in finite time, and delayed regularity.

Fundamentals of Gas Reservoir Engineering Aug 31 2020 Gas reservoir engineering is the branch of reservoir engineering that deals exclusively with reservoirs of non-associated gas. The prime purpose of reservoir engineering is the formulation of development and production plans that will result in maximum recovery for a given set of economic, environmental and technical constraints. This is not a one-time activity but needs continual updating throughout the production life of a reservoir. The objective of this book is to bring together the fundamentals of gas reservoir engineering in a coherent and systematic manner. It is intended both for students who are new to the subject and practitioners, who may use this book as a reference and refresher. Each chapter can be read independently of the others and includes several, completely worked exercises. These exercises are an integral part of the book; they not only illustrate the theory but also show how to apply the theory to practical problems. Chapters 2, 3 and 4 are concerned with the basic physical properties of reservoirs and natural gas fluids, insofar as of relevance to gas reservoir engineering. Chapter 5 deals with the volumetric estimation of hydrocarbon fluids in-place and the recoverable hydrocarbon reserves of gas reservoirs. Chapter 6 presents the material balance method, a classic method for the analysis of reservoir performance based on the Law of Conservation of Mass. Chapters 7-10 discuss various aspects of the flow of natural gas in the reservoir and the wellbore: single phase flow in porous and permeable media; gaswell testing methods based on single-phase flow principles; the mechanics of gas flow in the wellbore; the problem of water coning, the production of water along with the gas in gas reservoirs with underlying bottom water. Chapter 11 discusses natural depletion, the common development option for dry and wet gas reservoirs. The development of gas-condensate reservoirs by gas injection is treated in Chapter 12. Appendix A lists the commonly used units in gas reservoir engineering, along with their conversion factors. Appendix B includes some special physical and mathematical constants that are of particular interest in gas reservoir engineering. Finally, Appendix C contains the physical properties of some common natural-gas components.

Surface Engineering of Light Alloys Dec 23 2019 Light alloys (aluminum, magnesium, and titanium alloys) are gaining increasing interest in the scientific and technological community in many different application fields, from automotive to medicine, thanks to their light weight coupled with interesting mechanical properties. The functional performances of light alloys can be significantly affected by their surface properties; in fact, the surface can be considered as the "visiting card" of the material for its working environment (e.g., it can drive the biological response upon implantation for titanium alloys intended for biomedical implants or it can affect the joining ability of aluminum and magnesium alloys) as well as for its further material working steps (e.g., coatings). Surface engineering is a versatile tool for the modification of material surfaces in order to tailor and improve their functional properties. The aim of the present Special Issue is to present the latest development in this field through research and review papers. In particular, the topics of interest include, but are not limited to, surface engineering of light alloys for biomedical applications, surface engineering of light alloys for joining and coatings applications, surface engineering of light alloys for corrosion protection, and surface engineering of light alloys for antibacterial/antifouling purposes.

The e-Government Development Discourse Feb 05 2021 This book brings out current research and practice concepts, articulating the research agenda for e-Government. When e-Government was first conceived, it was designed upon basic technologies where the emphasis was only on the simple display of government information for citizens to read. Nowadays, e-Government design comprises many complicated modules such as upload and download consoles, two-way interaction consoles between citizens and government agents, integrated government business processes presenting the whole of government, and it does not depend solely on technology. The complexity of e-Government has now evolved to include political, cultural, economic, social and technical dimensions. Bringing all these difficult aspects together is so complicated that it needs carefully planned strategies informed by local contextual characteristics. Rather than giving formulaic definitions and conceptual standpoints on many aspects of e-Government, as is the case in many e-Government publications, this book will explore the frontiers of global knowledge value chains by

discussing current and future dimensions of e-Government. For example, the book discusses the concept of data governance by exploring how actual opening up of government data can be achieved, especially in a developing world context. Further, the book posits that opening government data should be followed by the opening up of government business processes in order to peddle the concept of accountability and responsiveness. Much text on data governance has concentrated on articulating the basic definitions surrounding this concept. Another very important topic explored in this book is regarding how the concept of decolonisation can be extended to e-Government by providing practical examples as to how researchers in the developing world can contribute to the advancement of e-Government as a scientific field of enquiry and guide its implementation, thereof. Decolonisation is advocated for in e-Government research so that there is a balance in the inclusion of the Afrocentric knowledge into e-Government advancement other than over-reliance on the Euro-, Asia- and America-centric knowledge value chains (Mbembe 2015). As e-Government is a very expensive undertaking, the issue of funding has excluded African countries and a majority of the developing world from implementing e-Government. Despite funding being a critical cornerstone of e-Government development, there is a dearth of information on this topic. Therefore, this book provides a chapter which discusses traditional and innovative ways of funding e-Government design and implementation which can go a long way in improving e-Government penetration into the developing world. Further, the book explores how intelligent e-Government applications can be designed, especially in resource-constrained countries. A couple of emerging technology innovations such as fog computing and intelligent information technology are explored within the realm of e-Government design.

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