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Machine Learning, Advances in Computing, Renewable Energy and Communication - Anuradha Tomar
2021-08-19

This book gathers selected papers presented at International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC 2020), held in Krishna Engineering College, Ghaziabad, India, during December 17-18, 2020. This book discusses key concepts, challenges, and potential solutions in connection with established and emerging topics in advanced computing, renewable energy, and network communications.

Information Rules - Carl Shapiro 1999

As one of the first books to distill the economics of information and networks into practical business strategies, this is a guide to the winning moves that can help business leaders--from writers, lawyers and finance professional to executives in the entertainment, publishing and hardware and software industries--navigate successfully through the information economy.

The Physics of Cancer - Caterina A. M. La Porta 2017-04-20

Recent years have witnessed an increasing number of theoretical and experimental contributions to cancer research from different fields of physics, from biomechanics and soft-condensed matter physics to the statistical mechanics of complex systems. Reviewing these contributions and providing a sophisticated overview of the topic, this is the first book devoted to the emerging interdisciplinary field of cancer physics. Systematically integrating approaches from physics and biology, it includes topics such as cancer initiation and progression, metastasis, angiogenesis, cancer stem cells, tumor immunology, cancer cell mechanics and migration. Biological hallmarks of cancer are presented in an intuitive yet comprehensive way, providing graduate-level students and researchers in physics with a thorough introduction to this important subject. The impact of the physical mechanisms of cancer are explained through analytical and computational models, making this an essential reference for cancer biologists interested in cutting-edge quantitative tools and approaches coming from physics.

Food Process Engineering and Technology - Zeki Berk 2018-02-13

Food Process Engineering and Technology, Third Edition combines scientific depth with practical usefulness, creating a tool for graduate students and practicing food engineers, technologists and researchers looking for the latest information on transformation and preservation processes and process control and plant hygiene topics. This fully updated edition provides recent research and developments in the area, features sections on elements of food plant design, an introductory section on the elements of classical fluid mechanics, a section on non-thermal processes, and recent technologies, such as freeze concentration, osmotic dehydration, and active packaging that are discussed in detail. Provides a strong emphasis on the relationship between engineering and product quality/safety Considers cost and environmental factors Presents a fully updated, adequate review of recent research and developments in the area Includes a new, full chapter on elements of food plant design Covers recent technologies, such as freeze concentration, osmotic dehydration, and active packaging that are discussed in detail

Novel Food Processing - Jasim Ahmed 2016-04-19

Rapid expansion of research on the development of novel food processes in the past decade has resulted in novel processes drawn from fields outside the traditional parameters of food processing. Providing a wealth of new knowledge, Novel Food Processing: Effects on Rheological and Functional Properties covers

structural and functional changes at the micro level, and their implications at the macro level, in food exposed to new and emerging technologies. Contributions from an international panel with academic and professional credentials form the backbone of this work. They focus on the functional, rheological, and micro-structural changes that occur in foods when using emerging technologies such as high pressure processing, Ohmic heating, pulse electric fields, and ultraviolet radiation. The book examines new and innovative applications and presents the impact of these research findings on the nutritional aspects of protein and carbohydrate containing foods. It also considers the synergic effects of protein-starch components. Each chapter provides an in-depth analysis of a novel technology and its effect on food structure and function. New directions in food processing will continue to be influenced by diverse fields and used to respond to consumer concerns about food safety, quality, sensory attributes, and nutrition. Combining coverage of technological applications with the chemistry of food and biomaterials, this book illustrates in a very clear and concise fashion the structure-functionality relationship and how it is affected by newly developed and increasingly popular processing technologies.

Standard Handbook for Mechanical Engineers - Lionel Simeon Marks 1967

Introduction to e-Business - Colin Combe 2012-07-26

An Introduction to e-Business provides the contemporary knowledge of the key issues affecting the modern e-business environment and links theory and practice of management strategies relating to e-business. This book brings together the most cogent themes for an introduction to e-business and constitutes a valuable contribution to formalising common themes for teaching the subject in higher education. It brings together theoretical perspectives based on academic research and the application of e-business strategies. These concepts are further explored in the six case studies that follow the set chapters. This new textbook integrates the main themes to provide a complete picture of the key elements relevant to an introductory text in e-business. To fully appreciate the e-business environment it is necessary to understand the links between the different disciplines that come together to form

CALL communities and culture - short papers from EUROCALL 2016 - Salomi Papadima-Sophocleous
2016-12-18

The 23rd EUROCALL conference was organised by the Cyprus University of Technology Language Centre. The theme of the conference was "CALL communities and Culture". Between the 24th and 27th August 2016, over 135 presentations were delivered and 27 posters were presented; 84 of these presentations appear in this volume of selected peer-reviewed short papers.

Atlas of Chick Development - Ruth Bellairs 2005-09-15

This outstanding work is the only modern book devoted to the chick embryo and has been an essential resource for geneticists, molecular and developmental biologists, and other life scientists who use the chick embryo as their research model. This new enlarged and updated second edition is published in response to continuing demand. The text provides a detailed description of development, from fertilization to hatching, with emphasis on the earlier stages though also covering individual organ systems in detail. There are reviews of the more recent molecular research and a new section highlighting the important landmarks in the history of chick embryology which have had an impact on our understanding of developmental processes. The book is beautifully illustrated with 74 text-figures and over 500 photographs, including

nearly 200 new scanning electron micrographs. New to This Edition: * Updated and expanded text to accompany diagrams * More than 200 new labelled scanning electron micrographs showing individual tissues in great detail * Reviews of recent molecular research * Discusses the roles of genes such as Hox genes, BMPs, and sonic hedgehog during early development * New sections on genetical anomalies, techniques, and the poultry industry

Computer Supported Education - H. Chad Lane 2020-12-11

This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Computer Supported Education, CSEDU 2019, held in Heraklion, Crete, Greece, in May 2019. The 30 revised full papers were carefully reviewed and selected from 202 submissions. The papers cover wide research fields including authoring tools and content development, AV-communication and multimedia, classroom management, e-Learning hardware and software, blended learning, critical success factors in distance learning.

Reservoir Engineering - Sylvester Okotie 2018-11-22

This book provides a clear and basic understanding of the concept of reservoir engineering to professionals and students in the oil and gas industry. The content contains detailed explanations of key theoretic and mathematical concepts and provides readers with the logical ability to approach the various challenges encountered in daily reservoir/field operations for effective reservoir management. Chapters are fully illustrated and contain numerous calculations involving the estimation of hydrocarbon volume in-place, current and abandonment reserves, aquifer models and properties for a particular reservoir/field, the type of energy in the system and evaluation of the strength of the aquifer if present. The book is written in oil field units with detailed solved examples and exercises to enhance practical application. It is useful as a professional reference and for students who are taking applied and advanced reservoir engineering courses in reservoir simulation, enhanced oil recovery and well test analysis.

Organic Waste Recycling: Technology, Management and Sustainability - Chongrak Polprasert 2017-06-15

This fourth edition of Organic Waste Recycling is fully updated with new material to create a comprehensive and accessible textbook: - New chapter on constructed wetlands for wastewater and faecal sludge stabilization. - New sections on: waste recycling vs. climate change and water; faecal sludge and its characteristics; hydrothermal carbonization technology; up-to-date environmental criteria and legislation and environmental risk assessment. - New case studies with emphasis on practices in both developed and developing countries have been included, along with more exercises at the end of chapters to help the readers understand the technical principles and their application. - Novel concepts and strategies of waste management are presented. - Up-to-date research findings and innovative technologies of waste recycling program are provided. This textbook is intended for undergraduate and graduate students majoring in environmental sciences and engineering as well as researchers, professionals and policy makers who conduct research and practices in the related fields. It is essential reading for experts in environmental science and engineering and sustainable waste reuse and recycling in both developed and developing countries.

Progresses in Artificial Intelligence and Neural Systems - Anna Esposito 2020-07-09

This book provides an overview of the current advances in artificial intelligence and neural nets. Artificial intelligence (AI) methods have shown great capabilities in modelling, prediction and recognition tasks supporting human-machine interaction. At the same time, the issue of emotion has gained increasing attention due to its relevance in achieving human-like interaction with machines. The real challenge is taking advantage of the emotional characterization of humans' interactions to make computers interfacing with them emotionally and socially credible. The book assesses how and to what extent current sophisticated computational intelligence tools might support the multidisciplinary research on the characterization of appropriate system reactions to human emotions and expressions in interactive scenarios. Discussing the latest recent research trends, innovative approaches and future challenges in AI from interdisciplinary perspectives, it is a valuable resource for researchers and practitioners in academia and industry.

Industrial Organization - Lynne Pepall 2014-01-28

Pepall's Industrial Organization: Contemporary Theory and Empirical Applications, 5th Edition offers an

accessible text in which topics are organized in a manner that motivates and facilitates progression from one chapter to the next. It serves as a complete, but concise, introduction to modern industrial economics. The text uniquely uses the tools of game theory, information economics, contracting issues, and practical examples to examine multiple facets of industrial organization. The fifth edition is more broadly accessible, balancing the tension between making modern industrial analysis accessible while also presenting the formal abstract modeling that gives the analysis its power. The more overtly mathematical content is presented in the Contemporary Industrial Organization text (aimed at the top tier universities) while this Fifth Edition will be less mathematical (aimed at a wider range of four-year colleges and state universities).

Advanced Natural Gas Engineering - Xiuli Wang 2013-11-25

Natural gas is playing an increasing role in meeting world energy demands because of its abundance, versatility, and its clean burning nature. As a result, lots of new gas exploration, field development and production activities are under way, especially in places where natural gas until recently was labeled as "stranded". Because a significant portion of natural gas reserves worldwide are located across bodies of water, gas transportation in the form of LNG or CNG becomes an issue as well. Finally natural gas is viewed in comparison to the recently touted alternatives. Therefore, there is a need to have a book covering all the unique aspects and challenges related to natural gas from the upstream to midstream and downstream. All these new issues have not been addressed in depth in any existing book. To bridge the gap, Xiuli Wang and Michael Economides have written a new book called Advanced Natural Gas Engineering. This book will serve as a reference for all engineers and professionals in the energy business. It can also be a textbook for students in petroleum and chemical engineering curricula and in training departments for a large group of companies.

Enhanced Oil Recovery - Marcel Latil 1980

Advances in Signal Processing and Intelligent Recognition Systems - Sabu M. Thampi 2019-01-06

This book constitutes the refereed proceedings of the 4th International Symposium on Advances in Signal Processing and Intelligent Recognition Systems, SIRS 2018, held in Bangalore, India, in September 2018. The 28 revised full papers and 11 revised short papers presented were carefully reviewed and selected from 92 submissions. The papers cover wide research fields including information retrieval, human-computer interaction (HCI), information extraction, speech recognition.

Free Innovation - Eric Von Hippel 2016-11-10

A leading innovation scholar explains the growing phenomenon and impact of free innovation, in which innovations developed by consumers and given away "for free." In this book, Eric von Hippel, author of the influential Democratizing Innovation, integrates new theory and research findings into the framework of a "free innovation paradigm." Free innovation, as he defines it, involves innovations developed by consumers who are self-rewarded for their efforts, and who give their designs away "for free." It is an inherently simple grassroots innovation process, unencumbered by compensated transactions and intellectual property rights. Free innovation is already widespread in national economies and is steadily increasing in both scale and scope. Today, tens of millions of consumers are collectively spending tens of billions of dollars annually on innovation development. However, because free innovations are developed during consumers' unpaid, discretionary time and are given away rather than sold, their collective impact and value have until very recently been hidden from view. This has caused researchers, governments, and firms to focus too much on the Schumpeterian idea of innovation as a producer-dominated activity. Free innovation has both advantages and drawbacks. Because free innovators are self-rewarded by such factors as personal utility, learning, and fun, they often pioneer new areas before producers see commercial potential. At the same time, because they give away their innovations, free innovators generally have very little incentive to invest in diffusing what they create, which reduces the social value of their efforts. The best solution, von Hippel and his colleagues argue, is a division of labor between free innovators and producers, enabling each to do what they do best. The result will be both increased producer profits and increased social welfare—a gain for all.

Anaerobic Technology in Pulp and Paper Industry - Pratima Bajpai 2017-03-14

This book presents a state-of-the-art report on the treatment of pulp and paper industry effluents using

anaerobic technology. It covers a comprehensive range of topics, including the basic reasons for anaerobic treatment, comparison between anaerobic and aerobic treatment, effluent types suitable for anaerobic treatment, design considerations for anaerobic treatment, anaerobic reactor configurations applied for treatment of pulp and paper industry effluents, present status of anaerobic treatment in pulp and paper industry, economic aspects, examples of full scale installations and future trends.

Principles of Petroleum Reservoir Engineering - Gian L. Chierici 2013-03-09

Six years ago, at the end of my professional career in the oil industry, I left my management position within Agip S.p.A., a major multinational oil company whose headquarters are in Italy, to take up the chair in reservoir engineering at the University of Bologna, Italy. There, I decided to prepare what was initially intended to be a set of lecture notes for the students attending the course. However, while preparing these notes, I became so absorbed in the subject matter that I soon found myself creating a substantial volume of text which could not only serve as a university course material, but also as a reference for wider professional applications. Thanks to the interest shown by the then president of Agip, Ing. Giuseppe Muscarella, this did indeed culminate in the publication of the first Italian edition of this book in 1989. The translation into English and publication of these volumes owes much to the encouragement of the current president of Agip, Ing. Guglielmo Moscato. My grateful thanks are due to both gentlemen. And now - the English version, translated from the second Italian edition, and containing a number of revisions and much additional material. As well as providing a solid theoretical basis for the various topics, this work draws extensively on my 36 years of worldwide experience in the development and exploitation of oil and gas fields.

Handbook of Social Media Management - Mike Friedrichsen 2013-05-28

Digitization and Web 2.0 have brought about continuous change from traditional media management to new strategic, operative and normative management options. Social media management is on the agenda of every media company, and requires a new set of specialized expertise on digital products and communication. At the same time, social media has become a vibrant field of research for media economists and media management researchers. In this handbook, international experts present a comprehensive account of the latest developments in social media research and management, consistently linking classical media management with social media. The articles discuss new theoretical approaches as well as empirical findings and applications, yielding an interesting overview of interdisciplinary and international approaches. The book's main sections address forms and content of social media; impact and users; management with social media; and a new value chain with social media. The book will serve as a valuable reference work for researchers, students and professionals working in media and public relations.

Exploiting Agility for Advantage - David L. Francis 2020-09-07

Many argue that all organisations should strive to be agile. Exploiting Agility for Advantage takes a radically different view. The author's research shows that requisite agility is required, meaning 'not too much, not too little, of the right type and delivering wanted agility deliverables'. This is a book for managers who want their enterprise to be intelligently agile but don't know how to achieve this. Part One shows why agility is a strategic option for commercial and not-for-profit enterprises. Part Two describes, in detail, a seven-step agility-orientated development programme for work-groups or entire organisations. Part Three provides academic underpinning on organisational agility for researchers and students of management. "Agility isn't easy and developing it is going to need much more than a simple slogan. This book offers very helpful insights into the detailed mechanisms that underpin this capability, and practical guidance around how to build and embed them." (Prof. John Bessant) Author videos:

<https://vimeo.com/449735611> <https://vimeo.com/461491774>

Machine Learning in the Oil and Gas Industry - Yogendra Narayan Pandey 2020-11-03

Apply machine and deep learning to solve some of the challenges in the oil and gas industry. The book begins with a brief discussion of the oil and gas exploration and production life cycle in the context of data flow through the different stages of industry operations. This leads to a survey of some interesting problems, which are good candidates for applying machine and deep learning approaches. The initial chapters provide a primer on the Python programming language used for implementing the algorithms; this is followed by an overview of supervised and unsupervised machine learning concepts. The authors provide

industry examples using open source data sets along with practical explanations of the algorithms, without diving too deep into the theoretical aspects of the algorithms employed. Machine Learning in the Oil and Gas Industry covers problems encompassing diverse industry topics, including geophysics (seismic interpretation), geological modeling, reservoir engineering, and production engineering. Throughout the book, the emphasis is on providing a practical approach with step-by-step explanations and code examples for implementing machine and deep learning algorithms for solving real-life problems in the oil and gas industry. What You Will Learn Understanding the end-to-end industry life cycle and flow of data in the industrial operations of the oil and gas industry Get the basic concepts of computer programming and machine and deep learning required for implementing the algorithms used Study interesting industry problems that are good candidates for being solved by machine and deep learning Discover the practical considerations and challenges for executing machine and deep learning projects in the oil and gas industry Who This Book Is For Professionals in the oil and gas industry who can benefit from a practical understanding of the machine and deep learning approach to solving real-life problems.

Advanced Learning - Albert Ziegler 2021-09-07

Petroleum Production Engineering - Boyun Guo, 2017-02-10

Petroleum Production Engineering, Second Edition, updates both the new and veteran engineer on how to employ day-to-day production fundamentals to solve real-world challenges with modern technology. Enhanced to include equations and references with today's more complex systems, such as working with horizontal wells, workovers, and an entire new section of chapters dedicated to flow assurance, this go-to reference remains the most all-inclusive source for answering all upstream and midstream production issues. Completely updated with five sections covering the entire production spectrum, including well productivity, equipment and facilities, well stimulation and workover, artificial lift methods, and flow assurance, this updated edition continues to deliver the most practical applied production techniques, answers, and methods for today's production engineer and manager. In addition, updated Excel spreadsheets that cover the most critical production equations from the book are included for download. Updated to cover today's critical production challenges, such as flow assurance, horizontal and multi-lateral wells, and workovers Guides users from theory to practical application with the help of over 50 online Excel spreadsheets that contain basic production equations, such as gas lift potential, multilateral gas well deliverability, and production forecasting Delivers an all-inclusive product with real-world answers for training or quick look up solutions for the entire petroleum production spectrum

Reservoir Geomechanics - Mark D. Zoback 2010-04-01

This interdisciplinary book encompasses the fields of rock mechanics, structural geology and petroleum engineering to address a wide range of geomechanical problems that arise during the exploitation of oil and gas reservoirs. It considers key practical issues such as prediction of pore pressure, estimation of hydrocarbon column heights and fault seal potential, determination of optimally stable well trajectories, casing set points and mud weights, changes in reservoir performance during depletion, and production-induced faulting and subsidence. The book establishes the basic principles involved before introducing practical measurement and experimental techniques to improve recovery and reduce exploitation costs. It illustrates their successful application through case studies taken from oil and gas fields around the world. This book is a practical reference for geoscientists and engineers in the petroleum and geothermal industries, and for research scientists interested in stress measurements and their application to problems of faulting and fluid flow in the crust.

Industrial Organization - Jeffrey R. Church 2000

Through an effective blend of analysis and examples this text integrates the game theory revolution with the traditional understanding of imperfectly competitive markets.

Waterflooding - G. Paul Willhite 1986

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

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

The Cambridge Handbook of Technology and Employee Behavior - Richard N. Landers 2019-02-14
Experts from across all industrial-organizational (IO) psychology describe how increasingly rapid technological change has affected the field. In each chapter, authors describe how this has altered the meaning of IO research within a particular subdomain and what steps must be taken to avoid IO research from becoming obsolete. This Handbook presents a forward-looking review of IO psychology's understanding of both workplace technology and how technology is used in IO research methods. Using interdisciplinary perspectives to further this understanding and serving as a focal text from which this research will grow, it tackles three main questions facing the field. First, how has technology affected IO psychological theory and practice to date? Second, given the current trends in both research and practice, could IO psychological theories be rendered obsolete? Third, what are the highest priorities for both research and practice to ensure IO psychology remains appropriately engaged with technology moving forward?

Transforming Learning with Meaningful Technologies - Maren Scheffel 2019-09-09

This book constitutes the proceedings of the 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, held in Delft, The Netherlands, in September 2019. The 41 research papers and 50 demo and poster papers presented in this volume were carefully reviewed and selected from 149 submissions. The contributions reflect the debate around the role of and challenges for cutting-edge 21st century meaningful technologies and advances such as artificial intelligence and robots, augmented reality and ubiquitous computing technologies and at the same time connecting them to different pedagogical approaches, types of learning settings, and application domains that can benefit from such technologies.

Applied Petroleum Reservoir Engineering - Benjamin Cole Craft 1991

Basic level textbook covering concepts and practical analytical techniques of reservoir engineering.

Functional and Speciality Beverage Technology - P Paquin 2009-01-29

As consumer demand for traditional carbonated drinks falls, the market for beverages with perceived health-promoting properties is growing rapidly. Formulating a nutritional, nutraceutical or functional beverage with satisfactory sensory quality and shelf-life can be challenging. This important collection reviews the key ingredients, formulation technology and health effects of the major types of functional and speciality beverage. Chapters in part one consider essential ingredients such as stabilizers and sweeteners, and significant aspects of formulation such as fortification technology and methods to extend shelf-life. Dairy-based beverages are the focus of Part two, with chapters covering methods to improve the nutritional and sensory quality and technological functionality of milk, a crucial ingredient in many healthful beverages. Chapters on newer dairy ingredients, such as whey and milk-fat globule membrane complete the section. Part three then reviews advances in the significant plant-based beverage sector, with chapters on popular products such as fruit juices, sports drinks, tea and coffee. Soy proteins are also covered. Chapters on product development and the role of beverages in the diet complete the volume. With its distinguished editor and contributors, Functional and speciality beverage technology is an essential collection for professionals and academics interested in this product sector. Reviews the key ingredients, formulation technology and health effects of the major types of functional and speciality beverages Essential ingredients such as stabilizers and sweeteners, and significant aspects of formulation such as fortification technology and methods to extend shelf-life are considered Focuses on methods to improve the nutritional

and sensory quality and technological functionality of milk

Petroleum Reservoir Engineering Practice - Nnaemeka Ezekwe 2010-09-09

The Complete, Up-to-Date, Practical Guide to Modern Petroleum Reservoir Engineering This is a complete, up-to-date guide to the practice of petroleum reservoir engineering, written by one of the world's most experienced professionals. Dr. Nnaemeka Ezekwe covers topics ranging from basic to advanced, focuses on currently acceptable practices and modern techniques, and illuminates key concepts with realistic case histories drawn from decades of working on petroleum reservoirs worldwide. Dr. Ezekwe begins by discussing the sources and applications of basic rock and fluid properties data. Next, he shows how to predict PVT properties of reservoir fluids from correlations and equations of state, and presents core concepts and techniques of reservoir engineering. Using case histories, he illustrates practical diagnostic analysis of reservoir performance, covers essentials of transient well test analysis, and presents leading secondary and enhanced oil recovery methods. Readers will find practical coverage of experience-based procedures for geologic modeling, reservoir characterization, and reservoir simulation. Dr. Ezekwe concludes by presenting a set of simple, practical principles for more effective management of petroleum reservoirs. With Petroleum Reservoir Engineering Practice readers will learn to • Use the general material balance equation for basic reservoir analysis • Perform volumetric and graphical calculations of gas or oil reserves • Analyze pressure transients tests of normal wells, hydraulically fractured wells, and naturally fractured reservoirs • Apply waterflooding, gasflooding, and other secondary recovery methods • Screen reservoirs for EOR processes, and implement pilot and field-wide EOR projects. • Use practical procedures to build and characterize geologic models, and conduct reservoir simulation • Develop reservoir management strategies based on practical principles Throughout, Dr. Ezekwe combines thorough coverage of analytical calculations and reservoir modeling as powerful tools that can be applied together on most reservoir analyses. Each topic is presented concisely and is supported with copious examples and references. The result is an ideal handbook for practicing engineers, scientists, and managers—and a complete textbook for petroleum engineering students.

Petroleum Production Systems - Michael J. Economides 2013

Written by four leading experts, this edition thoroughly introduces today's modern principles of petroleum production systems development and operation, considering the combined behaviour of reservoirs, surface equipment, pipeline systems, and storage facilities. The authors address key issues including artificial lift, well diagnosis, matrix stimulation, hydraulic fracturing and sand control. They show how to optimise systems for diverse production schedules using queuing theory, as well as linear and dynamic programming. Throughout, they provide both best practices and rationales, fully illuminating the exploitation of unconventional oil and gas reservoirs. Updates include: Extensive new coverage of hydraulic fracturing, including high permeability fracturing New sand and water management techniques * An all-new chapter on Production Analysis New coverage of digital reservoirs and self-learning techniques New skin correlations and HW flow techniques

Standard Handbook of Petroleum and Natural Gas Engineering: - William C. Lyons 1996-10-16

Petroleum engineering now has its own true classic handbook that reflects the profession's status as a mature major engineering discipline. Formerly titled the Practical Petroleum Engineer's Handbook, by Joseph Zaba and W.T. Doherty (editors), this new, completely updated two-volume set is expanded and revised to give petroleum engineers a comprehensive source of industry standards and engineering practices. It is packed with the key, practical information and data that petroleum engineers rely upon daily. The result of a fifteen-year effort, this handbook covers the gamut of oil and gas engineering topics to provide a reliable source of engineering and reference information for analyzing and solving problems. It also reflects the growing role of natural gas in industrial development by integrating natural gas topics throughout both volumes. More than a dozen leading industry experts-academia and industry-contributed to this two-volume set to provide the best, most comprehensive source of petroleum engineering information available.

Software Engineering Methods in Intelligent Algorithms - Radek Silhavy 2019-05-07

This book presents software engineering methods in the context of the intelligent systems. It discusses real-world problems and exploratory research describing novel approaches and applications of software

engineering, software design and algorithms. The book constitutes the refereed proceedings of the Software Engineering Methods in Intelligent Algorithms Section of the 8th Computer Science On-line Conference 2019 (CSOC 2019), held on-line in April 2019.

Overlay Networks - Sasu Tarkoma 2010-02-09

With their ability to solve problems in massive information distribution and processing, while keeping scaling costs low, overlay systems represent a rapidly growing area of R&D with important implications for the evolution of Internet architecture. Inspired by the author's articles on content based routing, *Overlay Networks: Toward Information Networking* provides a complete introduction to overlay networks.

Examining what they are and what kind of structures they require, the text covers the key structures, protocols, and algorithms used in overlay networks. It reviews the current state of the art in applications, decentralized overlays, security, information routing, and information forwarding. The book provides readers with an overview of networking technologies, the TCP/IP protocol suite, and networking basics. It also examines: The foundations of structured overlays Unstructured P2P overlay networks Graph-based algorithms for information dissemination and probabilistic algorithms Content-centric routing and a number of protocols and algorithms Security challenges of P2P and overlay technologies—providing solutions for mitigating risks Written by a scientist who is a university professor and a senior member of the Nokia research staff, this forward-looking reference covers advanced issues concerning performance and scalability. It highlights recent developments and discusses specific algorithms, including BitTorrent, Coolstream, BitOs, Chord, Content Addressable Network, Content Delivery Networks, Overlay multicast, and Peer-to-Peer SIP. Complete with a number of frequently-used probabilistic techniques and projections for future trends, this authoritative resource provides the tools and understanding needed to create deployable solutions for processing and distributing the vast amounts of data that modern networks demand.

Educational Media and Technology Yearbook - Robert Maribe Branch 2019-11-06

This is Volume 42 of the *Educational Media and Technology Yearbook*. For the past 40 years, our Yearbook has contributed to the field of Educational Technology in presenting contemporary topics, ideas, and developments regarding diverse technology tools for educational purposes. Our Yearbook has inspired

researchers, practitioners, and teachers to consider how to develop technological designs and develop curricula and instruction integrating technology to enhance student learning, teach diverse populations across levels with effective technology integration, and apply technology in interactive ways to motivate students to engage in course content. In addition, Volume 42 features the Virtual Reality (VR) and Augmented Reality (AR) research and educational use cases, organized and coordinated by Vivienne and David. This section provides evidence that the affordances of AR, VR, and mixed reality, defined as an immersive multi-platform experience reality (XR), have begun to make indelible changes in teaching and learning in the United States. XR's recent developments stimulated the editors to propose a special edition to mark the interoperability of immersive technology to push the boundaries of human curiosity, creativity, and problem solving. After years of incremental development, XR has reached a critical level of investment, infrastructure, and emerging production. The chapters included in this section illustrate how XR can push user inquiry, engagement, learning, and interactivity to new levels within physical and digital contexts.

Managing Digital Transformation - Andreas Hinterhuber 2021-05-27

This book provides practising executives and academics with the theories and best practices to plan and implement the digital transformation successfully. Key benefits: an overview on how leading companies plan and implement digital transformation interviews with chief executive officers and chief digital officers of leading companies - Bulgari, Deutsche Bahn, Henkel, Lanxess, L'Oréal, Unilever, Thales and others - explore lessons learnt and roadmaps to successful implementation research and case studies on the digitalization of small and medium-sized companies cutting-edge academic research on business models, organizational capabilities and performance implications of the digital transformation tools and insights into how to overcome internal resistance, build digital capabilities, align the organization, develop the ecosystem and create customer value to implement digital strategies that increase profits *Managing Digital Transformation* is unique in its approach, combining rigorous academic theory with practical insights and contributions from companies that are, according to leading academic thinkers, at the forefront of global best practice in the digital transformation. It is a recommended reading both for practitioners looking to implement digital strategies within their own organisations, as well as for academics and postgraduate students studying digital transformation, strategy and marketing.