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Wireless Technologies: Concepts, Methodologies, Tools and Applications Jan 05 2021 Contains the latest research, case studies, theories, and methodologies within the field of wireless technologies.

Handbook of Environmental Fluid Dynamics, Volume One Oct 22 2019 With major implications for applied physics, engineering, and the natural and social sciences, the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities, environment, and fluid motion. A landmark for the field, the two-volume Handbook of Environmental Fluid Dynamics presents the basic principles, fundamental flow processes, modeling techniques, and measurement methods used in the study of environmental motions. It also offers critical discussions of environmental sustainability related to engineering. The handbook features 81 chapters written by 135 renowned researchers from around the world. Covering environmental, policy, biological, and chemical aspects, it tackles important cross-disciplinary topics such as sustainability, ecology, pollution, micrometeorology, and limnology. Volume One: Overview and Fundamentals provides a comprehensive overview of the basic principles. It starts with general topics that emphasize the relevance of environmental fluid dynamics research in society, public policy, infrastructure, quality of life, security, and the law. It then discusses established and emerging focus areas. The volume also examines the sub-mesoscale flow processes and phenomena that form the building blocks of environmental motions, with emphasis on turbulent motions and their role in heat, momentum, and species transport. As communities face existential challenges posed by climate change, rapid urbanization, and scarcity of water and energy, the study of environmental fluid dynamics becomes increasingly relevant. This volume is a valuable resource for students, researchers, and policymakers working to better understand the fundamentals of environmental motions and how they affect and are influenced by anthropogenic activities. See also Handbook of Environmental Fluid Dynamics, Two-Volume Set and Volume Two: Systems, Pollution, Modeling, and Measurements.

The Biofuels Handbook May 09 2021 Petroleum-based fuels are well-established products that have served industry and consumers for more than one hundred years. However petroleum, once considered inexhaustible, is now being depleted at a rapid rate. As the amount of available petroleum decreases, the need for alternative technologies to produce liquid fuels that could potentially help prolong the liquid fuels culture and mitigate the forthcoming effects of the shortage of transportation fuels is being sought. The dynamics are now coming into place for the establishment of a synthetic fuels industry; the processes for recovery of raw materials and processing options have to change to increase the efficiency of oil production and it is up to various levels of government not only to promote the establishment of such an industry but to recognise the need for available and variable technology. This timely handbook is written to assist the reader in understanding the options that available for the production of synthetic fuel from biological sources. Each chapter contains tables of the chemical and physical properties of the fuels and fuel sources. It is essential that the properties of such materials be presented in order to assist the researcher to understand the nature of the feedstocks as well as the nature of the products. If a product cannot be employed for its hope-for-use, it is not a desirable product and must be changed accordingly. Such plans can only be made when the properties of the original product are understood. The fuels considered include conventional and unconventional fuel sources; the production and properties of fuels from biomass, crops, wood, domestic and industrial waste and landfill gas.

Biophilic Cities Jun 29 2020 Tim Beatley has long been a leader in advocating for the "greening" of cities. But too often, he notes, urban greening efforts focus on everything except nature, emphasizing such elements as public transit,

renewable energy production, and energy efficient building systems. While these are important aspects of reimagining urban living, they are not enough, says Beatley. We must remember that human beings have an innate need to connect with the natural world (the biophilia hypothesis). And any vision of a sustainable urban future must place its focus squarely on nature, on the presence, conservation, and celebration of the actual green features and natural life forms. A biophilic city is more than simply a biodiverse city, says Beatley. It is a place that learns from nature and emulates natural systems, incorporates natural forms and images into its buildings and cityscapes, and designs and plans in conjunction with nature. A biophilic city cherishes the natural features that already exist but also works to restore and repair what has been lost or degraded. In *Biophilic Cities* Beatley not only outlines the essential elements of a biophilic city, but provides examples and stories about cities that have successfully integrated biophilic elements—from the building to the regional level—around the world. From urban ecological networks and connected systems of urban greenspace, to green rooftops and green walls and sidewalk gardens, Beatley reviews the emerging practice of biophilic urban design and planning, and tells many compelling stories of individuals and groups working hard to transform cities from grey and lifeless to green and biodiverse.

[Guidance on spatial technologies for disaster risk management in aquaculture](#) Nov 03 2020 This new guide describes the application of spatial technology to improve disaster risk management (DRM) within the aquaculture sector. DRM requires interrelated actions and activities to ensure early warning, prevention, preparedness, response and recovery for a wide range of natural, technological and complex disasters that can impact aquaculture operations and livelihoods. Spatial technology refers to systems and tools that acquire, manage and analyse data that have geographic context. Some of the technologies include satellite remote sensing, aerial surveys, global positioning systems, geographic information systems, information and communication technology and other data gathering sensors used, for instance, in meteorology. Spatial technology supports activities across all phases of the DRM cycle and its rapid development provides enhanced opportunities to support DRM within the aquaculture sector. This guide is organized in two parts. Part one is the "guidance"; it is the main body of the document and describes the processes and steps for the use of spatial technology within DRM for aquaculture. Part two includes selected country case studies from Bangladesh, the Gulf of Mexico and the Caribbean, and Indonesia to illustrate the application of spatial technology in DRM for aquaculture at the national level within local contexts. Best practices at the farm and area management levels, supported by spatial technology, reduce volatility and risks and thus facilitate investment. Countries that would like aquaculture to grow sustainably and reliably are encouraged to use this guide in order to support spatial planning approaches and protect responsible investors. A separate summary version accompanies this publication.

[Afterlives of Georges Perec](#) Dec 16 2021 Examines Perec's impact on architecture, art, design, media, electronic communications, computing and the everyday. What do Perec's descriptions of the minutiae of everyday life reveal about our use of information and communications technologies? What happens if we read *Life: A User's Manual* as a toolbox of ideas for games studies? What light does the concept of the *infra-ordinary* shed on social media? What insights does algorithmic writing generate for the digital humanities? What lessons can architects, artists, game-designers and writers draw from Perec's fascination with creative constraints? Through an examination of such questions, this collection takes Perec scholarship beyond its existing limits to offer new ways of rethinking our present. Contributors: Tom Apperley, Monash University, Australia. Caroline Bassett, University of Sussex, UK. David Bellos, Princeton, USA. Justin Clemens, University of Melbourne, Australia. Ben Highmore, University of Sussex, UK. Alison James, University of Chicago, USA. Sandra Kaji-OGrady, University of Sydney, Australia. Christian Licoppe, TA(c)IA(c)com ParisTech, France. Anthony McCosker, Swinburne University of Technology, Melbourne, Australia. Mireille Ribière, independent scholar, translator and author. Darren Tofts, Swinburne University of Technology, Melbourne, Australia. Rowan Wilken, RMIT, Melbourne, Australia. Mark Wolff, Hartwick College in Oneonta, New York, USA.

[Special Issue of the Manufacturing Engineering Society 2019 \(SIMES-2019\)](#) Jul 19 2019 This book derives from the Special Issue of the Manufacturing Engineering Society 2019 (SIMES-2019) that has been launched as a joint issue of the journals *Materials* and *Applied Sciences*. The 29 contributions published in this Special Issue of *Materials* present cutting-edge advances in the field of manufacturing engineering focusing on additive manufacturing and 3D printing; advances and innovations in manufacturing processes; sustainable and green manufacturing; manufacturing of new materials; metrology and quality in manufacturing; industry 4.0; design, modeling, and simulation in manufacturing engineering; and manufacturing engineering and society. Among them, the topic "Additive Manufacturing and 3D Printing" has attracted a large number of contributions in this journal due to its widespread popularity and potential.

[Electrical Measuring Instruments and Measurements](#) Sep 20 2019 This book, written for the benefit of engineering students and practicing engineers alike, is the culmination of the author's four decades of experience related to the subject of electrical measurements, comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions. The unique feature of this book, apart from covering the syllabi of various universities, is the style of presentation of all important aspects and features of electrical measurements, with neatly and clearly drawn figures, diagrams and colour and b/w photos that illustrate details of instruments among other things, making the text easy to follow and comprehend. Enhancing the chapters are interspersed explanatory comments and, where necessary, footnotes to help better understanding of the chapter contents. Also, each chapter begins with a "recall" to link the subject matter with the related science or phenomenon and fundamental background. The first few chapters of the book comprise "Units, Dimensions and Standards"; "Electricity, Magnetism and Electromagnetism" and "Network Analysis". These topics form the basics of electrical measurements and provide a better understanding of the main topics

discussed in later chapters. The last two chapters represent valuable assets of the book, and relate to (a) "Magnetic Measurements", describing many unique features not easily available elsewhere, a good study of which is essential for the design and development of most electric equipment - from motors to transformers and alternators, and (b) "Measurement of Non-electrical Quantities", dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices. The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters. Other useful features of the book include an elaborate chapter-by-chapter list of symbols, worked examples, exercises and quiz questions at the end of each chapter, and extensive authors' and subject index. This book will be of interest to all students taking courses in electrical measurements as a part of a B.Tech. in electrical engineering. Professionals in the field of electrical engineering will also find the book of use.

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The Wiley Handbook of Home Education Jun 10 2021 The Wiley Handbook of Home Education is a comprehensive collection of the latest scholarship in all aspects of home education in the United States and abroad. Presents the latest findings on academic achievement of home-schooled children, issues of socialization, and legal argumentation about home-schooling and government regulation A truly global perspective on home education, this handbook includes the disparate work of scholars outside of the U.S. Typically understudied topics are addressed, such as the emotional lives of home educating mothers and the impact of home education on young adults Writing is accessible to students, scholars, educators, and anyone interested in home schooling issues

UK Wind Energy Technologies Oct 02 2020 Phase 1 of the EPSRC SUPERGEN Wind programme began in March 2006 and work continued under Phase 2 until March 2014. The strategic aim was to re-establish a strong research community in wind energy technologies, across the UK's leading academic and industrial research organisations. UK Wind Energy Technologies gives a comprehensive overview of the range of wind energy research undertaken in the UK under Phases 1 & 2 to achieve this goal. Specific topics covered in the book include: wind resource assessment, turbine array layout, environmental interactions, control of turbines, drive train reliability and condition monitoring, turbine array electrical connection, power transmission to grid, assessment of operations and maintenance strategies, and the analysis of turbine foundations and structures. Since the completion of Phase 2 the Supergen Wind consortium partners have formed a networking Hub, which is now the principal national coordinating body for academic research into wind energy in the UK. This book will be of interest to researchers and engineers from industry and academia and also provides workers from other countries with an overview of the range of activity within the UK resulting from the SUPERGEN Wind programme to date.

Wave and Tidal Energy Mar 27 2020 A comprehensive text covering all aspects of wave and tidal energy Wave and Tidal Energy provides a comprehensive and self-contained review of the developing marine renewable energy sector, drawing from the latest research and from the experience of device testing. The book has a twofold objective: to provide an overview of wave and tidal energy suitable for newcomers to the field and to serve as a reference text for advanced study and practice. Including detail on key issues such as resource characterisation, wave and tidal technology, power systems, numerical and physical modelling, environmental impact and policy. The book also includes an up-to-date review of developments worldwide and case studies of selected projects. Key features: A comprehensive and self-contained text covering all aspects of the multidisciplinary fields of wave and tidal energy. Draws upon the latest research in wave and tidal energy and the experience of leading practitioners in numerical and laboratory modelling. Regional developments worldwide are reviewed and representative projects are presented as case studies. Wave and Tidal Energy is an invaluable resource to a wide range of readers, from engineering students to technical managers and policymakers to postgraduate students and researchers.

Environmental Software Systems. Fostering Information Sharing Dec 24 2019 This book constitutes the refereed proceedings of the 10th IFIP WG 5.11 International Symposium on Environmental Software Systems, ISESS 2013, held in Neusiedl am See, Austria, in June 2013. The 65 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: environmental application in the scope of the future Internet; smart and mobile devices used for environmental applications; information tools for global environmental assessment; environmental applications in risk and crises management; SEIS as a part of the 7th environment action programme of EU; human interaction and human factors driving future EIS/EDSS developments; environmental management/-accounting and -statistics; and information systems and applications.

Altova® XMLSpy® 2011 User & Reference Manual Nov 15 2021

Advanced Safety Management Aug 20 2019 Establishes sound safety management principles and focuses on the revised Z10.0 safety standard, the new 45001 safety standard, and serious injury prevention Filled with updated chapters and information throughout, this book covers the provisions of ANSI/ASSP Z10.0-2019, the American standard for Occupational Health and Safety Management Systems. It expands in detail on the principles for advanced safety management, the content of the revised Z10.0 standard, and the newly adopted international standard, ISO 45001. It also emphasizes the need to reduce the occurrence of serious injuries, illnesses, and fatalities. Advanced Safety Management: Focusing on Z10.0, 45001 and Serious Injury Prevention, Third Edition expands on the material in previous editions and includes several new chapters emphasizing culture, systems design, and incident investigations. Beginning with an overview of ANSI/ASSP Z10.0-2019 and ANSI/ASSP/ISO 45001-2018, it goes on to offer chapters on: Essentials for the Practice of Safety; Human Error Avoidance; Hazards Analyses and Risk Assessments; Three- and Four-Dimensional Risk

Scoring Systems; Safety Design Reviews; The Procurement Process; Audit Requirements; The Management Oversight and Risk Tree (MORT); and more. Expands in detail on the principles for advanced safety management, the content of the revised ANSI/ASSP Z10.0. standard and the newly adopted international standard, ISO 45001 New chapters cover the Significance of An Organization's Culture; Fundamental Concepts; and Systems/Macro Thinking Places emphasis on the more prominent risk-based approach in the practice of safety Provides methods to align safety, operational, and financial goals, along with quality and environmental standards Explains the concepts of risk reduction, waste reduction, environmental impact deduction, and Prevention through Design (PtD) Advanced Safety Management is an important book for safety professionals, industrial hygienist, plant managers, OSHA and EPA advocates, students majoring in safety or industrial hygiene, and union leaders.

Proceedings of The 20th Pacific Basin Nuclear Conference Jul 31 2020 This is the third in a series of three proceedings of the 20th Pacific Basin Nuclear Conference (PBNC). This volume covers the topics of Power Reactor and New Buildings, Waste Management, Acquiring Medical and Biological Benefits and Student program. As one in the most important and influential conference series of nuclear science and technology, the 20th PBNC was held in Beijing and the theme of this meeting was "Nuclear: Powering the Development of the Pacific Basin and the World". It brought together outstanding nuclear scientist and technical experts, senior industry executives, senior government officials and international energy organization leaders from all across the world. The book serves as a useful reference not only for the professionals and public to know more about nuclear industry, but also for policymakers to adjust or make energy strategies.

Altova® StyleVision® 2010 User & Reference Manual Dec 04 2020

Implementation of a CAN Bus based Measurement System on an FPGA Development Kit Feb 06 2021

Inhaltsangabe:Abstract: The Controller Area Network (CAN) is a serial field bus protocol which was originally used in road vehicles. Most people still use Microcontrollers (MCU) to control the CAN bus. The development of Field-programmable Gate Array (FPGA) is very advanced, and compared to the MCU the FPGA has many advantages. For this reason, this thesis uses an Altera FPGA development kit to design a CAN bus based measurement system. During the work, four Direct Digital Synthesizers (DDS) were simulated for four wave channels in the FPGA. All signals of the channels were transmitted from the FPGA to a CAN bus. Between the CAN bus and FPGA an Atmel CAN MCU, which contains both serial and CAN ports, was used as the third party. Whereby the data output from the FPGA were first transmitted to the serial port of the CAN MCU and then shifted to the CAN port of the CAN MCU. The CAN bus device (NI CAN USB-8473) which was used in this thesis, has a CAN port to connect to the CAN port of the CAN MCU, and a USB 2.0 port to connect to a PC. Finally, the data of the CAN bus was monitored on the PC with the LabVIEW platform. With this platform the data could also be transmitted to the CAN bus and then to the FPGA to change the tuning word of DDS. In order to achieve the speed limit of the complete measurement system, the communication rates of FPGA, CAN bus and CAN MCU were programmed to be the maximum. Inhaltsverzeichnis:Table of Contents: 1Introduction4 1.1Background4 1.2Objective4 1.3Outline6 2CAN Introduction7 2.1Background7 2.2Architecture Layers8 2.2.1Physical Layer8 2.2.2Data Link Layer10 2.2.3Higher Layer10 2.3Frame Structure11 2.3.1Data Frame11 2.3.2Remote Frame14 2.3.3Error Frame15 2.3.4Overload Frame16 2.3.5Interframe Space16 2.4Frame Coding17 2.5Error Detecting and Handling18 2.6Fault Confinement19 3CAN and MCU Serial Port Effective Data Study22 3.1CAN Effective Data Study22 3.2MCU Serial Port Study25 3.2.1General 8051 MCU25 3.2.2Using Timer 227 3.2.3X2 Mode28 3.3CAN vs. MCU Serial Port29 4Experiment Components and Setup32 4.1Stratix III FPGA Development Kit32 4.2CAN MCU AT89C51CC0335 4.35-3.3 V Voltage Level Transistor38 4.4NI CAN USB-847340 4.5PC with NI CAN Driver42 4.6Setup42 5Software Development43 5.1FPGA with Quartus II43 5.1.1DDS Design43 5.1.2PLL Application45 5.1.3UART Reception49 5.1.4UART Transmission51 5.2MCU with Keil C5153 5.2.1Serial Port Programming53 5.2.2CAN [...]

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Performance-Based Financing Toolkit Jan 17 2022 Performance-based financing (PBF) is a comprehensive health systems approach that is expanding in regions around the world. Based on first-hand experience of PBF pioneers, this toolkit provides the state-of-art knowledge, methods, and tools for setting up an effective PBF approach in lower-and middle income settings.

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Altova® UModel® 2009 User & Reference Manual Apr 20 2022

Psychological Assessment in South Africa Jul 11 2021 This book provides an overview of the research related to psychological assessment across South Africa. The thirty-six chapters provide a combination of psychometric theory and practical assessment applications in order to combine the currently disparate research that has been conducted locally in this field. Existing South African texts on psychological assessment are predominantly academic textbooks that explain psychometric theory and provide brief descriptions of a few testing instruments. Psychological Assessment in South Africa provides in-depth coverage of a range of areas within the broad field of psychological assessment, including research conducted with various psychological instruments. The chapters critically interrogate the current Eurocentric and Western cultural hegemonic practices that dominate the field of psychological assessment. The book therefore has the potential to function both as an academic text for graduate students, as well as a specialist resource for professionals, including psychologists, psychometrists, remedial teachers and human resource practitioners.

Kinesthetic Empathy in Creative and Cultural Practices Jan 25 2020 Encouraging readers to sidestep the methodological and disciplinary boundaries associated with the arts and sciences, this title offers innovative and critical perspectives on

topics ranging from art to sport, film to physical therapy.

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Altova® StyleVision® 2009 User & Reference Manual Aug 24 2022

Altova® SchemaAgent® 2009 User & Reference Manual May 21 2022

A Research Primer for Technical Communication Sep 01 2020 This fully revised edition provides a practical introduction to research methods for anyone conducting and critically reading technical communication research. The first section discusses the role of research in technical communication and explains in plain language how to conduct and report such research. It covers both quantitative and qualitative methods, as well as surveys, usability studies, and literature reviews. The second section presents a collection of research articles that serve as exemplars of these major types of research projects, each followed by commentary breaking down how it corresponds to the information on that research type. In addition to five new chapters of exemplars and commentaries, this second edition contains a new chapter on usability studies. This book is an essential introduction to research methods for students of technical communication and for industry professionals who need to conduct and engage with research on the job.

Design, User Experience, and Usability: User Experience Design for Everyday Life Applications and Services Apr 27 2020 The four-volume set LNCS 8517, 8518, 8519 and 8520 constitutes the proceedings of the Third International Conference on Design, User Experience, and Usability, DUXU 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCII 2014, held in Heraklion, Crete, Greece in June 2014, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 256 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in this four-volume set. The 69 papers included in this volume are organized in topical sections on design for health; design for reading and learning; design for mobility, transport and safety; design for rural, low literacy and developing communities; design for environment and sustainability; design for human-computer symbiosis.

Software Design for Resilient Computer Systems Nov 22 2019 This book addresses the question of how system software should be designed to account for faults, and which fault tolerance features it should provide for highest reliability. With this second edition of *Software Design for Resilient Computer Systems* the book is thoroughly updated to contain the newest advice regarding software resilience. With additional chapters on computer system performance and system resilience, as well as online resources, the new edition is ideal for researchers and industry professionals. The authors first show how the system software interacts with the hardware to tolerate faults. They analyze and further develop the theory of fault tolerance to understand the different ways to increase the reliability of a system, with special attention on the role of system software in this process. They further develop the general algorithm of fault tolerance (GAFT) with its three main processes: hardware checking, preparation for recovery, and the recovery procedure. For each of the three processes, they analyze the requirements and properties theoretically and give possible implementation scenarios and system software support required. Based on the theoretical results, the authors derive an Oberon-based programming language with direct support of the three processes of GAFT. In the last part of this book, they introduce a simulator, using it as a proof of concept implementation of a novel fault tolerant processor architecture (ERRIC) and its newly developed runtime system feature-wise and performance-wise. Due to the wide reaching nature of the content, this book applies to a host of industries and research areas, including military, aviation, intensive health care, industrial control, and space exploration.

Frontiers in Offshore Geotechnics III Aug 12 2021 *Frontiers in Offshore Geotechnics III* comprises the contributions presented at the Third International Symposium on Frontiers in Offshore Geotechnics (ISFOG, Oslo, Norway, 10-12 June 2015), organised by the Norwegian Geotechnical Institute (NGI). The papers address current and emerging geotechnical engineering challenges facing those working in off

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Extreme Environment Electronics May 29 2020 Unfriendly to conventional electronic devices, circuits, and systems, extreme environments represent a serious challenge to designers and mission architects. The first truly comprehensive guide to this specialized field, *Extreme Environment Electronics* explains the essential aspects of designing and using devices, circuits, and electronic systems intended to operate in extreme environments, including across wide temperature ranges and in radiation-intense scenarios such as space. The *Definitive Guide to Extreme Environment Electronics* Featuring contributions by some of the world's foremost experts in extreme environment electronics, the book provides in-depth information on a wide array of topics. It begins by describing the extreme conditions and then delves into a description of suitable semiconductor technologies and the modeling of devices within those technologies. It also discusses reliability issues and failure mechanisms that readers need to be aware of, as well as best practices for the design of these electronics. Continuing beyond just the "paper design" of building blocks, the book rounds out coverage of the design realization process with verification techniques and chapters on electronic packaging for extreme environments. The final set of chapters describes actual chip-level designs for applications in energy and space exploration. Requiring only a basic background in electronics, the book combines theoretical and practical aspects in each self-contained chapter. Appendices supply additional background material. With its broad coverage and depth, and

the expertise of the contributing authors, this is an invaluable reference for engineers, scientists, and technical managers, as well as researchers and graduate students. A hands-on resource, it explores what is required to successfully operate electronics in the most demanding conditions.

Integrative Computational Materials Engineering Feb 24 2020 Presenting the results of an ambitious project, this book summarizes the efforts towards an open, web-based modular and extendable simulation platform for materials engineering that allows simulations bridging several length scales. In so doing, it covers processes along the entire value chain and even describes such different classes of materials as metallic alloys and polymers. It comprehensively describes all structural ideas, the underlying concepts, standard specifications, the verification results obtained for different test cases and additionally how to utilize the platform as a user and how to join it as a provider. A resource for researchers, users and simulation software providers alike, the monograph provides an overview of the current status, serves as a generic manual for prospective users, and offers insights into the inner modular structure of the simulation platform.

Selected Water Resources Abstracts Apr 08 2021

Analytical Methods in Petroleum Upstream Applications Jun 17 2019 Effective measurement of the composition and properties of petroleum is essential for its exploration, production, and refining; however, new technologies and methodologies are not adequately documented in much of the current literature. *Analytical Methods in Petroleum Upstream Applications* explores advances in the analytical methods and instrumentation that allow more accurate determination of the components, classes of compounds, properties, and features of petroleum and its fractions.

Recognized experts explore a host of topics, including: A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil-in-water measurements and monitoring The chemical and physical properties of heavy oils, their fractions, and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance (NMR) applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream, midstream, and downstream operations Due to the renaissance of gas and oil production in North America, interest has grown in analytical methods for a wide range of applications. The understanding provided in this text is designed to help chemists, geologists, and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations, providing insight into optimum development and extraction schemes.

From Landfill Gas to Energy Mar 07 2021 Converting old landfills to energy producing sites, while capturing emitted greenhouse gases, has faced numerous technical, financial and social challenges and developments lately. Also, the re-mining of landfills to recover useful land in dense urban areas and proper landfill closure has been a subject of discussion and investigation. Designed as

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