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Transfer Learning for Natural Language Processing Paul Azunre 2021-08-31 Build custom NLP models in record time by adapting pre-trained machine learning models to solve specialized problems. Summary In *Transfer Learning for Natural Language Processing* you will learn: Fine tuning pretrained models with new domain data Picking the right model to reduce resource usage Transfer learning for neural network architectures Generating text with generative pretrained transformers Cross-lingual transfer learning with BERT Foundations for exploring NLP academic literature Training deep learning NLP models from scratch is costly, time-consuming, and requires massive amounts of data. In *Transfer Learning for Natural Language Processing*, DARPA researcher Paul Azunre reveals cutting-edge transfer learning techniques that apply customizable pretrained models to your own NLP architectures. You'll learn how to use transfer learning to deliver state-of-the-art results for language comprehension, even when working with limited label data. Best of all, you'll save on training time and computational costs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Build custom NLP models in record time, even with limited datasets! Transfer learning is a machine learning technique for adapting pretrained machine learning models to solve specialized problems. This powerful approach has revolutionized natural language processing, driving improvements in machine translation, business analytics, and natural language generation. About the book *Transfer Learning for Natural Language Processing* teaches you to create powerful NLP solutions quickly by building on existing pretrained models. This instantly useful book provides crystal-clear explanations of the concepts you need to grok transfer learning along with hands-on examples so you can practice your new skills immediately. As you go, you'll apply state-of-the-art transfer learning methods to create a spam email classifier, a fact checker, and more real-world applications. What's inside Fine tuning pretrained models with new domain data Picking the right model to reduce resource use Transfer learning for neural network architectures Generating text with pretrained transformers About the reader For machine learning engineers and data scientists with some experience in NLP. About the author Paul Azunre holds a PhD in Computer Science from MIT and has served as a Principal Investigator on several DARPA research programs. Table of Contents PART 1 INTRODUCTION AND OVERVIEW 1 What is transfer learning? 2 Getting started with baselines: Data preprocessing 3 Getting started with baselines: Benchmarking and optimization PART 2 SHALLOW TRANSFER LEARNING AND DEEP TRANSFER LEARNING WITH RECURRENT NEURAL NETWORKS (RNNS) 4 Shallow transfer learning for NLP 5 Preprocessing data for recurrent neural network deep transfer learning experiments 6 Deep transfer learning for NLP with recurrent neural networks PART 3 DEEP TRANSFER LEARNING WITH TRANSFORMERS AND ADAPTATION STRATEGIES 7 Deep transfer

learning for NLP with the transformer and GPT 8 Deep transfer learning for NLP with BERT and multilingual BERT 9 ULMFiT and knowledge distillation adaptation strategies 10 ALBERT, adapters, and multitask adaptation strategies 11 Conclusions

ABM Is B2B Sangram Vajre 2019-09-03 Instant Bestseller on Amazon in Marketing and Sales!
FACT: Less than ONE percent of all leads become customers. As a business, how can you break that trend and achieve client fidelity? In this book we reveal the secrets behind the framework that will sell and retain your customers. Did you know that less than one percent of all leads become customers? It is a true and shocking stat, but there is a way to stop the waste and flip this around. In this highly anticipated book, we reveal the secrets behind our signature TEAM - Target, Engage, Activate, and Measure - framework to transform your approach to market, increase sales, and retain your ideal customers. Account-Based Marketing (ABM) is the new B2B. It's time to challenge the status quo of B2B Marketing and Sales, and transition to what the business arena already expects as the updated B2B model. A transformation like this can only happen through an account-based approach that unites marketing, sales, and customer success teams (go-to-market teams) as #OneTeam. In summary, the TEAM framework coupled with the account-based approach enables your company to focus on the target accounts, engage them in a meaningful way, activate the sales team with top tier accounts proactively, and finally measure success based on business outcomes over vanity metrics. It's time to take the lead and transition your business to ABM. The process is simple when you have the right book - ABM is B2B. What are you waiting for?

Process Engineering 1999

Chinese Civilization Patricia Buckley Ebrey 2009-11-24 Chinese Civilization sets the standard for supplementary texts in Chinese history courses. With newly expanded material, personal documents, social records, laws, and documents that historians mistakenly ignore, the sixth edition is even more useful than its classic predecessor. A complete and thorough introduction to Chinese history and culture.

The Monte Carlo Simulation Method for System Reliability and Risk Analysis Enrico Zio 2012-11-02 Monte Carlo simulation is one of the best tools for performing realistic analysis of complex systems as it allows most of the limiting assumptions on system behavior to be relaxed. The Monte Carlo Simulation Method for System Reliability and Risk Analysis comprehensively illustrates the Monte Carlo simulation method and its application to reliability and system engineering. Readers are given a sound understanding of the fundamentals of Monte Carlo sampling and simulation and its application for realistic system modeling. Whilst many of the topics rely on a high-level understanding of calculus, probability and statistics, simple academic examples will be provided in support to the explanation of the theoretical foundations to facilitate comprehension of the subject matter. Case studies will be introduced to provide the practical value of the most advanced techniques. This detailed approach makes The Monte Carlo Simulation Method for System Reliability and Risk Analysis a key reference for senior undergraduate and graduate students as well as researchers and practitioners. It provides a powerful tool for all those involved in system analysis for reliability, maintenance and risk evaluations.

Deep Learning in Natural Language Processing Li Deng 2018-05-23 In recent years, deep learning has fundamentally changed the landscapes of a number of areas in artificial

intelligence, including speech, vision, natural language, robotics, and game playing. In particular, the striking success of deep learning in a wide variety of natural language processing (NLP) applications has served as a benchmark for the advances in one of the most important tasks in artificial intelligence. This book reviews the state of the art of deep learning research and its successful applications to major NLP tasks, including speech recognition and understanding, dialogue systems, lexical analysis, parsing, knowledge graphs, machine translation, question answering, sentiment analysis, social computing, and natural language generation from images. Outlining and analyzing various research frontiers of NLP in the deep learning era, it features self-contained, comprehensive chapters written by leading researchers in the field. A glossary of technical terms and commonly used acronyms in the intersection of deep learning and NLP is also provided. The book appeals to advanced undergraduate and graduate students, post-doctoral researchers, lecturers and industrial researchers, as well as anyone interested in deep learning and natural language processing.

Autodesk 3ds Max 9 MAXScript Essentials Autodesk, Inc 2007 This text helps you write your own MAXScript functions and utilities to create custom tools and UI elements, and automate repetitive tasks. The companion CD-ROM contains media files that allow you to practice the techniques with real-world examples.

Dynamic Modeling of Large-scale Networks with Application to Gas Distribution
Jaroslav Králik 1988

Fluid Mechanics with Engineering Applications E. John Finnemore 2002 This book is well known and well respected in the civil engineering market and has a following among civil engineers. This book is for civil engineers the teach fluid mechanics both within their discipline and as a service course to mechanical engineering students. As with all previous editions this 10th edition is extraordinarily accurate, and its coverage of open channel flow and transport is superior. There is a broader coverage of all topics in this edition of Fluid Mechanics with Engineering Applications. Furthermore, this edition has numerous computer-related problems that can be solved in Matlab and Mathcad. The solutions to these problems will be at a password protected web site.

Safety and Reliability of Complex Engineered Systems Luca Podofillini 2015-09-03
Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference, ESREL 2015, held 7-10 September 2015 in Zurich, Switzerland. It includes about 570 papers accepted for presentation at the conference. These contributions focus on theories and methods in the area of risk, safety and

Beginning NFC Tom Igoe 2014-01-14 Jump into the world of Near Field Communications (NFC), the fast-growing technology that lets devices in close proximity exchange data, using radio signals. With lots of examples, sample code, exercises, and step-by-step projects, this hands-on guide shows you how to build NFC applications for Android, the Arduino microcontroller, and embedded Linux devices. You'll learn how to write apps using the NFC Data Exchange Format (NDEF) in PhoneGap, Arduino, and node.js that help devices read messages from passive NFC tags and exchange data with other NFC-enabled devices. If you know HTML and JavaScript, you're ready to start with NFC. Dig into NFC's architecture, and learn how it's related to RFID Write sample apps for Android with PhoneGap and its NFC plugin Dive into NDEF: examine existing tag-writer apps and build your own Listen for and filter NDEF

messages, using PhoneGap event listeners Build a full Android app to control lights and music in your home Create a hotel registration app with Arduino, from check-in to door lock Write peer-to-peer NFC messages between two Android devices Explore embedded Linux applications, using examples on Raspberry Pi and BeagleBone

The Digital Frog 2 2001 Made up of three modules, Dissection, Anatomy and Ecology, which are integrated into an interactive learning tool.

An Introduction to the Basics of Reliability and Risk Analysis Enrico Zio 2007 The necessity of expertise for tackling the complicated and multidisciplinary issues of safety and risk has slowly permeated into all engineering applications so that risk analysis and management has gained a relevant role, both as a tool in support of plant design and as an indispensable means for emergency planning in accidental situations. This entails the acquisition of appropriate reliability modeling and risk analysis tools to complement the basic and specific engineering knowledge for the technological area of application. Aimed at providing an organic view of the subject, this book provides an introduction to the principal concepts and issues related to the safety of modern industrial activities. It also illustrates the classical techniques for reliability analysis and risk assessment used in current practice.

Europe's Energy Transition Manuel Welsch 2017-04-13 Europe's Energy Transition: Insights for Policy Making looks at the availability and cost of accessing energy and how it significantly affects economic growth and competitiveness in global markets. The results in this book, from a European Commission (EC) financed project by INSIGHT_E, provide an overview of the most recent analyses, focusing on energy markets and their implications for society. Designed to inform European policymaking, elements of this book will be integrated into upcoming EC policies, giving readers invaluable insights into the cost and availability of energy, the effect of price increases affecting vulnerable consumer groups, and current topics of interest to the EC and ongoing energy debate. INSIGHT_E provides decision-makers with unbiased policy advice and insights on the latest developments, including an assessment of their potential impact. Presents answers to strategic questions posed by the European Commission Coherently assesses the energy transition, from policies to energy supply, markets, system requirements, and consumer needs Informed the EC "Clean Energy for All Europeans" package from end of 2016, e.g., regarding aspects of energy poverty Endorsed by thought leaders from within and outside of Europe, including utilities, energy agencies, research institutes, journal editors, think tanks, and the European Commission

Her Name in the Sky Kelly Quindlen 2014 Seventeen-year-old Hannah wants to spend her senior year of high school going to football games and Mardi Gras parties. She wants to drive along the oak-lined streets of Louisiana's Garden District and lie on the hot sand of Florida's beaches. She wants to spend every night making memories with her tight-knit group of friends. The last thing she wants is to fall in love with a girl - especially when that girl is her best friend, Baker. Hannah knows she should like Wally, the kind, earnest boy who asks her to prom. She should cheer on her friend Clay when he asks Baker to be his girlfriend. She should follow the rules of her conservative community - the rules that have been ingrained in her since she was a child. But Hannah longs to be with Baker, who cooks macaroni and cheese with Hannah late at night, who believes in the magic of books as much as Hannah does, and who challenges Hannah to be the best version of herself. And Baker might want to be with Hannah, too - if both girls can embrace that world-shaking, yet wondrous, possibility. In this poignant

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coming-of-age novel, Hannah must find a compromise between the truth of her heart and the expectations of her community. She must break through her shame and learn to trust in the goodness of her friends. And above all, she and Baker must open their hearts to the saving power of love. Raw, moving, and teeming with unforgettable characters, *Her Name in the Sky* is a modern love story about the teenage quest for identity and the redeeming power of the human heart.

Computational Methods for Reliability and Risk Analysis Enrico Zio 2009 This book illustrates a number of modelling and computational techniques for addressing relevant issues in reliability and risk analysis. In particular, it provides: i) a basic illustration of some methods used in reliability and risk analysis for modelling the stochastic failure and repair behaviour of systems, e.g. the Markov and Monte Carlo simulation methods; ii) an introduction to Genetic Algorithms, tailored to their application for RAMS (Reliability, Availability, Maintainability and Safety) optimization; iii) an introduction to key issues of system reliability and risk analysis, like dependent failures and importance measures; and iv) a presentation of the issue of uncertainty and of the techniques of sensitivity and uncertainty analysis used in support of reliability and risk analysis. The book provides a technical basis for senior undergraduate or graduate courses and a reference for researchers and practitioners in the field of reliability and risk analysis. Several practical examples are included to demonstrate the application of the concepts and techniques in practice.

Beginner's Guide to Sketching - Characters, Creatures and Concepts 3dtotal Publishing 2015-08-01 Embark on your sketching journey with 3dtotal's inspirational *Beginner's Guide to Sketching: Characters, Creatures and Concepts*.

Data Analysis Using the Method of Least Squares John Wolberg 2006-02-08 Develops the full power of the least-squares method Enables engineers and scientists to apply the method to their specific problem Deals with linear as well as with non-linear least-squares, parametric as well as non-parametric methods

Autodesk Inventor 2015 Tutorial Online Instructor 2014-07-14 This tutorial book helps you to get started with Autodesk's popular 3D modeling software using step-by-step tutorials. It starts with creating parts of an Oldham Coupling Assembly, assembling them, and then creating print ready drawings. This process gives you an overview of the design process and provides a strong base to learn additional tools and techniques. The proceeding chapters will cover additional tools related to part modelling, assemblies, sheet metal design, and drawings. Brief explanations and step-by-step tutorials help you to learn Autodesk Inventor quickly and easily.

- Get an overview of the design process
- Familiarize yourself with the User Interface
- Teach yourself to create assembly presentations
- Create custom sheet formats and templates
- Learn additional part modelling tools with the help of real-world exercises
- Learn to create different variations of a part
- Learn Top-down assembly design and Design Accelerator
- Learn to create and animate mechanical joints
- Create basic sheet metal parts
- Create custom punches and insert them into the sheet metal part
- Create and annotate sheet metal drawings
- Learn to add GD&T annotations to the drawings

Downloadable tutorial and exercise file from the companion website. Table of Contents 1. Getting Started with Inventor 2015 2. Part Modeling Basics 3. Assembly Basics 4. Creating Drawings 5. Additional Modeling Tools 6. Sheet Metal Modeling 7. Top-Down Assembly and Motion Simulation 8. Dimensions and Annotations

Maximum Entropy and Ecology John Harte 2011-06-23 This pioneering graduate textbook provides readers with the concepts and practical tools required to understand the maximum entropy principle, and apply it to an understanding of ecological patterns. Rather than building and combining mechanistic models of ecosystems, the approach is grounded in information theory and the logic of inference. Paralleling the derivation of thermodynamics from the maximum entropy principle, the state variable theory of ecology developed in this book predicts realistic forms for all metrics of ecology that describe patterns in the distribution, abundance, and energetics of species over multiple spatial scales, a wide range of habitats, and diverse taxonomic groups. The first part of the book is foundational, discussing the nature of theory, the relationship of ecology to other sciences, and the concept of the logic of inference. Subsequent sections present the fundamentals of macroecology and of maximum information entropy, starting from first principles. The core of the book integrates these fundamental principles, leading to the derivation and testing of the predictions of the maximum entropy theory of ecology (METE). A final section broadens the book's perspective by showing how METE can help clarify several major issues in conservation biology, placing it in context with other theories and highlighting avenues for future research.

Deep Learning For Dummies John Paul Mueller 2019-04-15 Take a deep dive into deep learning Deep learning provides the means for discerning patterns in the data that drive online business and social media outlets. Deep Learning for Dummies gives you the information you need to take the mystery out of the topic—and all of the underlying technologies associated with it. In no time, you'll make sense of those increasingly confusing algorithms, and find a simple and safe environment to experiment with deep learning. The book develops a sense of precisely what deep learning can do at a high level and then provides examples of the major deep learning application types. Includes sample code Provides real-world examples within the approachable text Offers hands-on activities to make learning easier Shows you how to use Deep Learning more effectively with the right tools This book is perfect for those who want to better understand the basis of the underlying technologies that we use each and every day.

Compendium of Hydrogen Energy Ram Gupta 2016-02-03 *Compendium of Hydrogen Energy, Volume 2: Hydrogen Storage, Distribution and Infrastructure* focuses on the storage and transmission of hydrogen. As many experts believe the hydrogen economy will, at some point, replace the fossil fuel economy as the primary source of the world's energy, this book details hydrogen storage in pure form, including chapters on hydrogen liquefaction, slush production, as well as underground and pipeline storage. Other sections in the book explore physical and chemical storage, including environmentally sustainable methods of hydrogen production from water, with final chapters dedicated to hydrogen distribution and infrastructure. Covers a wide array of methods for storing hydrogen, detailing hydrogen transport and the infrastructure required for transition to the hydrogen economy Written by leading academics in the fields of sustainable energy and experts from the world of industry Part of a very comprehensive compendium which looks at the entirety of the hydrogen energy economy

Gas Pipeline Hydraulics Shashi Menon 2013-04 This book is concerned with the steady state hydraulics of natural gas and other compressible fluids being transported through pipelines. Our main approach is to determine the flow rate possible and compressor station horsepower required within the limitations of pipe strength, based on the pipe materials and grade. It addresses the scenarios where one or more compressors may be required depending on the gas flow rate and if discharge cooling is needed to limit the gas temperatures. The book is the

result of over 38 years of the authors' experience on pipelines in North and South America while working for major energy companies such as ARCO, El Paso Energy, etc.

Engineering Flow and Heat Exchange Octave Levenspiel 2014-11-26 The third edition of Engineering Flow and Heat Exchange is the most practical textbook available on the design of heat transfer and equipment. This book is an excellent introduction to real-world applications for advanced undergraduates and an indispensable reference for professionals. The book includes comprehensive chapters on the different types and classifications of fluids, how to analyze fluids, and where a particular fluid fits into a broader picture. This book includes various a wide variety of problems and solutions – some whimsical and others directly from industrial applications. Numerous practical examples of heat transfer Different from other introductory books on fluids Clearly written, simple to understand, written for students to absorb material quickly Discusses non-Newtonian as well as Newtonian fluids Covers the entire field concisely Solutions manual with worked examples and solutions provided

Product Design and Manufacturing Xiao Dong Zhang 2011-09-02 The papers in this book were the object of strict peer-review, and cover the latest advances in, and applications of, advanced design technology, CAD/CAM/CAE, mechanical dynamics, friction and wear and advanced manufacturing technologies.

Proceedings of the ... International Pipeline Conference 2007

Natural Language Processing with PyTorch Delip Rao 2019-01-22 Natural Language Processing (NLP) provides boundless opportunities for solving problems in artificial intelligence, making products such as Amazon Alexa and Google Translate possible. If you're a developer or data scientist new to NLP and deep learning, this practical guide shows you how to apply these methods using PyTorch, a Python-based deep learning library. Authors Delip Rao and Brian McMahon provide you with a solid grounding in NLP and deep learning algorithms and demonstrate how to use PyTorch to build applications involving rich representations of text specific to the problems you face. Each chapter includes several code examples and illustrations. Explore computational graphs and the supervised learning paradigm Master the basics of the PyTorch optimized tensor manipulation library Get an overview of traditional NLP concepts and methods Learn the basic ideas involved in building neural networks Use embeddings to represent words, sentences, documents, and other features Explore sequence prediction and generate sequence-to-sequence models Learn design patterns for building production NLP systems

Network Flows: Pearson New International Edition Ravindra K. Ahuja 2013-11-01 Bringing together the classic and the contemporary aspects of the field, this comprehensive introduction to network flows provides an integrative view of theory, algorithms, and applications. It offers in-depth and self-contained treatments of shortest path, maximum flow, and minimum cost flow problems, including a description of new and novel polynomial-time algorithms for these core models. For professionals working with network flows, optimization, and network programming.

Handbook of Liquefied Natural Gas Saeid Mokhatab 2013-10-15 Liquefied natural gas (LNG) is a commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world. The LNG industry, using

technologies proven over decades of development, continues to expand its markets, diversify its supply chains and increase its share of the global natural gas trade. The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources in more remote and harsher environments. It is the only book of its kind, covering the many aspects of the LNG supply chain from liquefaction to regasification by addressing the LNG industries' fundamentals and markets, as well as detailed engineering and design principles. A unique, well-documented, and forward-thinking work, this reference book provides an ideal platform for scientists, engineers, and other professionals involved in the LNG industry to gain a better understanding of the key basic and advanced topics relevant to LNG projects in operation and/or in planning and development. Highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations Provides guidelines in utilizing the full potential of LNG assets Offers advices on LNG plant design and operation based on proven practices and design experience Emphasizes technology selection and innovation with focus on a "fit-for-purpose design Updates code and regulation, safety, and security requirements for LNG applications

Logistics Operations and Management Reza Zanjirani Farahani 2011 This book provides a comprehensive overview of how to strategically manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment. Topics covered include important tools for strategic decision making, transport, packaging, warehousing, retailing, customer services and future trends. An introduction to logistics Provides practical applications Discusses trends and new strategies in major parts of the logistic industry

Transmission Pipeline Calculations and Simulations Manual E. Shashi Menon 2014-12-27 Transmission Pipeline Calculations and Simulations Manual is a valuable time- and money-saving tool to quickly pinpoint the essential formulae, equations, and calculations needed for transmission pipeline routing and construction decisions. The manual's three-part treatment starts with gas and petroleum data tables, followed by self-contained chapters concerning applications. Case studies at the end of each chapter provide practical experience for problem solving. Topics in this book include pressure and temperature profile of natural gas pipelines, how to size pipelines for specified flow rate and pressure limitations, and calculating the locations and HP of compressor stations and pumping stations on long distance pipelines. Case studies are based on the author's personal field experiences Component to system level coverage Save time and money designing pipe routes well Design and verify piping systems before going to the field Increase design accuracy and systems effectiveness

Chemical Process Technology and Simulation SRIKUMAR KOYIKKAL 2013-04-08 This book is designed to apprise the students of chemical engineering with a variety of different processes of chemical technologies. The book is richly illustrated and covers the essential information with the help of flow diagrams, enabling the students to gain a full understanding of both the fundamental concepts and chemical reactions involved in process technologies. Newer technologies have been dealt with and some technologies which have lost their relevance have been omitted. Computer simulation methods have been described for many important technologies. In short, the book considers computer design tools and design software, in a manner that integrates this knowledge smoothly into the main subject. The book is expected to become useful not only to the students for courses in Chemical Technology but

also to practising engineers and process designers for innovative process development. There are topics on natural products and fermentation process chemicals, organic chemicals, inorganic chemicals, refinery operations, oil and gas operations and nanotechnology products. In some of these topics, computer simulation and costing examples are included. An illustration of modelling and simulation using C++, is also given as an example of user-written programs for simulation. Another method that can be used for simulation is the use of spreadsheets, which is also described with the help of an example. A new important topic of today being 'polysilicon' used in the manufacture of computer chips and solar panels, is also covered in detail.

Sustainable Ceramics Robert Harrison 2022-01-13 Artists are increasingly interested in producing work that is not only beautifully designed and produced, but is also environmentally friendly and socially responsible. In *Sustainable Ceramics*, pioneer Robert Harrison draws on more than four decades of making, and a wealth of experience shared by other artists to present practical possibilities for ceramic artists. This book covers all the factors to consider when going 'green', from fuels and alternative firing technology to energy-saving methods, sustainable ways to collect and use clay itself, and ways to deal with or recycle waste materials and save water. He suggests simple and achievable methods by which to reduce the carbon footprint of ceramic art, and draws on interviews and examples throughout by practitioners who reclaim, reuse and recycle in their studio or work. *Sustainable Ceramics* is an essential resource for any ceramicist, studio or school looking for ideas on how to reduce the impact of their practice on the environment.

Underground Sensing Sibel Pamukcu 2017-11-01 *Underground Sensing: Monitoring and Hazard Detection for Environment and Infrastructure* brings the target audience the technical and practical knowledge of existing technologies of subsurface sensing and monitoring based on a classification of their functionality. In addition, the book introduces emerging technologies and applications of sensing for environmental and geo-hazards in subsurface - focusing on sensing platforms that can enable fully distributed global measurements. Finally, users will find a comprehensive exploration of the future of underground sensing that can meet demands for preemptive and sustainable response to underground hazards. New concepts and paradigms based on passively powered and/or on-demand activated, embeddable sensor platforms are presented to bridge the gap between real-time monitoring and global measurements. Presents a one-stop-shop reference for underground sensing and monitoring needs that saves valuable research time Provides application cases for all technologies that are covered and described in detail Includes full, four color images of equipment and applications Designed to cover a wide variety of underground sensors, from agriculture to geohazards

Fuel Cells: Technologies for Fuel Processing Dushyant Shekhawat 2011-03-18 *Fuel Cells: Technologies for Fuel Processing* provides an overview of the most important aspects of fuel reforming to the generally interested reader, researcher, technologist, teacher, student, or engineer. The topics covered include all aspects of fuel reforming: fundamental chemistry, different modes of reforming, catalysts, catalyst deactivation, fuel desulfurization, reaction engineering, novel reforming concepts, thermodynamics, heat and mass transfer issues, system design, and recent research and development. While no attempt is made to describe the fuel cell itself, there is sufficient description of the fuel cell to show how it affects the fuel reformer. By focusing on the fundamentals, this book aims to be a source of information now and in the future. By avoiding time-sensitive information/analysis (e.g., economics) it serves as

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a single source of information for scientists and engineers in fuel processing technology. The material is presented in such a way that this book will serve as a reference for graduate level courses, fuel cell developers, and fuel cell researchers. Chapters written by experts in each area Extensive bibliography supporting each chapter Detailed index Up-to-date diagrams and full colour illustrations

Liquefied Gas Handling Principles on Ships and in Terminals Graham McGuire 2016

Conventional Energy in North America Jorge Morales Pedraza 2019-06-05 Conventional Energy in North America: Current and Future Sources for Electricity Generation provides in-depth information on the current state of conventional energy sources used for electricity generation in the United States and Canada. As energy is a major force of civilization, determining, to a high degree, the level of economic and social development, this book provides relevant information and a deep analysis regarding the main problems associated with the use of fossil fuels for the generation of electricity in both countries. Finally, the book offers guidance for countries seeking to expand their use of conventional energy sources for electricity generation. Users in government, energy experts, economists, politicians, academics, scientific institutions and universities, international organizations and the private and public power industry will find this book to be a great reference on what type of conventional energy sources should be used for electricity generation with the aim of reducing the emission of CO₂ and other contaminated gases to the atmosphere. Includes comprehensive information on the different types of conventional energy sources available in the USA and Canada, including their impact on climate, level of energy reserves, and levels of production and consumption Covers the pros and cons of each type of conventional energy source for electricity generation Features an analysis of what types of conventional energy sources should be used for future electricity generation in the USA and Canada, with the aim of reducing the emission of CO₂ and other contaminated gas to the atmosphere

Handbook of Natural Gas Transmission and Processing Saeid Mokhatab 2018-10-16

Written by an internationally-recognized team of natural gas industry experts, the fourth edition of Handbook of Natural Gas Transmission and Processing is a unique, well-researched, and comprehensive work on the design and operation aspects of natural gas transmission and processing. Six new chapters have been added to include detailed discussion of the thermodynamic and energy efficiency of relevant processes, and recent developments in treating super-rich gas, high CO₂ content gas, and high nitrogen content gas with other contaminants. The new material describes technologies for processing today's unconventional gases, providing a fresh approach in solving today's gas processing challenges including greenhouse gas emissions. The updated edition is an excellent platform for gas processors and educators to understand the basic principles and innovative designs necessary to meet today's environmental and sustainability requirement while delivering acceptable project economics. Covers all technical and operational aspects of natural gas transmission and processing. Provides pivotal updates on the latest technologies, applications, and solutions. Helps to understand today's natural gas resources, and the best gas processing technologies. Offers design optimization and advice on the design and operation of gas plants.

Who is Fourier? Transnational College of LEX. 1995 Many people give up on math in high school - they do not feel comfortable with it, or they do not see the need for it in everyday life. These "mathematically-challenged" people may have had little recourse available in the past.

Now, however, there is LRF's *Who is Fourier?*, which takes readers gently by the hand and helps them with both simple and intimidating concepts alike. By using everyday examples it enables the reader to develop an understanding of the language of Fourier's wave analysis. For instance, Fourier Series is explained with a comparison to the contents of 'Veggie-veggie' juice! The student authors take the reader along on their adventure of discovery, creating an interactive work that gradually moves from the very basics ("What is a right triangle?") to the more complicated mathematics of trigonometry, exponentiation, differentiation, and integration. This is done in a way that is not only easy to understand, but actually enjoyable.

Proceedings of the 3rd International Gas Processing Symposium 2012-12-13 Natural gas continues to be the fuel of choice for power generation and feedstock for a range of petrochemical industries. This trend is driven by environmental, economic and supply considerations with a balance clearly tilting in favor of natural gas as both fuel and feedstock. Despite the recent global economic uncertainty, the oil and gas industry is expected to continue its growth globally, especially in emerging economies. The expansion in LNG capacity beyond 2011 and 2012 coupled with recently launched and on-stream GTL plants poses real technological and environmental challenges. These important developments coupled with a global concern on green house gas emissions provide a fresh impetus to engage in new and more focused research activities aimed at mitigating or resolving the challenges facing the industry. Academic researchers and plant engineers in the gas processing industry will benefit from the state of the art papers published in this collection that cover natural gas utilization, sustainability and excellence in gas processing. Provides state-of-the-art contributions in the area of gas processing Covers solutions to technical and environmental problems Input from academia and industry