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Entrance: Physics Answers

Although the discussion is general, this book focuses on the problem of macroscopic quantum phenomena using systems of spintronics. The spintronics considered are ferromagnetic and antiferromagnetic spintronics. To represent the macroscopic quantum phenomena in spintronics, transitions from one state to another of the magnetization of ferromagnetic spintronics are considered, and of the Néel vector of antiferromagnetic spintronics. The authors have studied transitions from a metastable state to a more stable one, as well as quantum coherence between two degenerate stable states. Quantum and classical rates of transitions are presented as functions of temperature, magnetic field and the spin-polarized current flowing through the spintronics. With this method, one can immediately observe the effect of the spin-polarized current on the transitions of the magnetization and the Néel vector when comparing the results to those of the earlier ones on magnetic systems that did not have spin-polarized current. Specifically, while dissipations in magnetic system are intrinsic, the book shows how the total dissipation in spintronics can be controlled and eliminated by varying the spin-polarized current appropriately that depends on the temperature. The study of transitions from a metastable state to a more stable one in ferromagnetic spintronics shows that the rate of transitions of the magnetization at low

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temperatures is low and vanishes at zero temperature, so that the magnetization is relatively more stable than that in ferromagnetic materials without existence of spin-polarized currents. In the case of antiferromagnetic spintronics, the behavior and characteristics of transitions of the Néel vector is in contrast to those of ferromagnetic spintronics, where the low-temperature rate of transitions in antiferromagnetic spintronics varies exponentially small in temperature, and is finite and non-vanishing at zero temperature. In addition to the theoretical aspects, the book also discusses experimental and technological aspects that one may obtain.

Measurements of the rate of transitions can be used to provide an independent method to determine certain parameters being involved, such as the anisotropy parameter K_c of tetragonal crystals, which is an important parameter but usually difficult to obtain. Eliminating dissipation in ferromagnetic and antiferromagnetic spintronics would be desired so as not to have unnecessary loss of energy. Low rate of transitions corresponds to the initial state that is relatively stable. Technologically, the stability of the states of the magnetization and Néel vector in spintronics are important, for example, for memory storage.

A Practical Guide to Piping and Valves for the Oil and Gas Industry covers how to select, test and maintain the right oil and gas valve. Each chapter

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focuses on a specific type of valve with a built-in structured table on valve selection. Covering both onshore and offshore projects, the book also gives an introduction to the most common types of corrosion in the oil and gas industry, including CO₂, H₂S, pitting, crevice, and more. A model to evaluate CO₂ corrosion rate on carbon steel piping is introduced, along with discussions on bulk piping components, including fittings, gaskets, piping and flanges. Rounding out with chapters devoted to valve preservation to protect against harmful environments and factory acceptance testing, this book gives engineers and managers a much-needed tool to better understand today's valve technology.

Presents oil and gas examples and challenges relating to valves, including many illustrations from valves in different stages of projects Helps readers understand valve materials, testing, actuation, packing and preservation, also including a new model to evaluate CO₂ corrosion rates on carbon steel piping Presents structured valve selection tables in each chapter to help readers pick the right valve for the right project

Electric Motor Control: DC, AC, and BLDC Motors introduces practical drive techniques of electric motors to enable stable and efficient control of many application systems, also covering basic principles of high-performance motor control techniques, driving methods, control theories and power converters. Electric motor

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drive systems play a critical role in home appliances, motor vehicles, robotics, aerospace and transportation, heating ventilating and cooling equipment's, robotics, industrial machinery and other commercial applications. The book provides engineers with drive techniques that will help them develop motor drive system for their applications. Includes practical solutions and control techniques for industrial motor drive applications currently in use Contains MATLAB/Simulink simulation files Enables engineers to understand the applications and advantages of electric motor drive systems "Second Edition provides new material on coupling ratings, general purpose couplings versus special purpose couplings, retrofitting of lubricated couplings to nonlubricated couplings, torsional damping couplings, torquemeter couplings, and more."

Every oil and gas refinery or petrochemical plant requires sufficient utilities support in order to maintain a successful operation. A comprehensive utilities complex must exist to distribute feedstocks, discharge waste streams, and remains an integrated part of the refinery's infrastructure. Essentials of Oil and Gas Utilities explains these support systems and provides essential information on their essential requirements and process design. This guide includes water treatment plants, condensate recovery plants, high pressure steam boilers, induced draft cooling towers, instrumentation/plant air compressors, and units for a refinery fuel gas and oil systems. In addition, the book offers recommendations for equipment and flow line protection against temperature fluctuations and the

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proper preparation and storage of strong and dilute caustic solutions. Essentials of Oil and Gas Utilities is a go-to resource for engineers and refinery personnel who must consider utility system design parameters and associated processes for the successful operations of their plants. Discusses gaseous and liquid fuel systems used to provide heat for power generation, steam production and process requirements Provides a design guide for compressed air systems used to provide air to the various points of application in sufficient quantity and quality and with adequate pressure for efficient operation of air tools or other pneumatic devices. Explains the water systems utilized in plant operations which include water treatment systems or raw water and plant water system; cooling water circuits for internal combustion engines, reciprocating compressors, inter-cooling and after-cooling facilities; and "Hot Oil" and "Tempered Water" systems

An eminent economist warns that Western nations' economic expectations for the future are way out of sync with the realities of economic stagnation and stringent steps will be required to avoid massive political and economic upheaval. "It is alarmingly difficult to disagree with Stephen King. All one can say, perhaps, is that one of the great errors of human nature—strongly displayed before the credit crunch—is the belief that a prevailing trend will continue indefinitely. The crunch is surely a reminder that what goes up must come down."—Charles Moore, Daily Telegraph "[King] is dabbling in the financial equivalent of the horror genre. Perhaps even scarier, his is the stuff of nonfiction."—Michael J. Casey,

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Wall Street Journal

The first book dedicated exclusively to plasma medicine for graduate students and researchers in physics, engineering, biology, medicine and biochemistry.

The contributors to this book have spent time and effort presenting the cosmetic and plastic surgeon with information on the techniques and uses of liposuction for cosmetic and non-cosmetic surgery purposes. This constitutes the first book on cosmetic and non-cosmetic liposuction. It provides a how-to-do manual for all procedures of cosmetic and non-cosmetic liposuction and is abundantly illustrated. Although new technology helps improve results, it is experience, care, and skill of the cosmetic surgeon that is necessary to obtain optimal results that satisfy the patient.

Offshore Wind is the first-ever roadmap to successful offshore wind installation. It provides a ready reference for wind project managers, teaching them how to deal with complications on-site, as well as for financiers, who can utilize the text as an easy guide to asking the pivotal questions of petitioning wind project developers. These developers' planning stages will be improved by the book's expert advice on how to avoid wasting money by scoping out and mitigating potential problems up-front. Wind turbine manufacturers will benefit from insights into design optimization to support cheaper installation and

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hauling, thereby incurring lower project costs, and helping developers establish a quicker route to profitability. The book sheds light not just on how to solve a particular installation difficulty, but delves into why the problem may best be solved in that way. Enables all stakeholders to realize cheaper, faster, and safer offshore wind projects Explains the different approaches to executing on- and offshore projects, highlighting the economic impacts of the various financial and operational choices Provides practical, proven advice on how tough challenges can be overcome, using real-life examples from the author's experiences to illustrate key issues

Democles and Z'Davaar, the equivalents of God and the Devil, agree to create the first humans and place them on the planet of Eden. The Edeneans subsequently spread their race throughout the galaxy, but, when their most important sun goes nova, the survivors begin falling ill and dying. In order to prevent their total extinction, they build the Arka and head for the nearest wormhole. But on their way there they have to fight Anuk, who has agreed to obey Z'Davaar's orders and destroy the other Edeneans, in order to have his lover resurrected. Only Lerman Kruger has the strength to oppose him... A philosophical science fiction adventure that spans the entire galaxy!

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A retelling of five folktales in which crafty Brer Rabbit tries to outsmart all the other creatures in the animal community.

Carbon Capture and Storage, Second Edition, provides a thorough, non-specialist introduction to technologies aimed at reducing greenhouse gas emissions from burning fossil fuels during power generation and other energy-intensive industrial processes, such as steelmaking. Extensively revised and updated, this second edition provides detailed coverage of key carbon dioxide capture methods along with an examination of the most promising techniques for carbon storage. The book opens with an introductory section that provides background regarding the need to reduce greenhouse gas emissions, an overview of carbon capture and storage (CCS) technologies, and a primer in the fundamentals of power generation. The next chapters focus on key carbon capture technologies, including absorption, adsorption, and membrane-based systems, addressing their applications in both the power and non-power sectors. New for the second edition, a dedicated section on geological storage of carbon dioxide follows, with chapters addressing the relevant features, events, and processes (FEP) associated with this scenario. Non-geological storage methods such as ocean storage and storage in terrestrial ecosystems are the subject of the final group of chapters. A chapter on carbon dioxide transportation is also included. This extensively revised and expanded second edition will be a valuable resource for power plant engineers, chemical engineers, geological engineers, environmental engineers, and industrial engineers seeking a concise, yet authoritative one-volume overview of this field. Researchers, consultants, and policy makers entering this discipline also will benefit from this reference. Provides all-inclusive and authoritative coverage of the major technologies under consideration for carbon capture and storage Presents information in an

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approachable format, for those with a scientific or engineering background, as well as non-specialists Includes a new Part III dedicated to geological storage of carbon dioxide, covering this topic in much more depth (9 chapters compared to 1 in the first edition) Features revisions and updates to all chapters Includes new sections or expanded content on: chemical looping/calcium looping; life-cycle GHG assessment of CCS technologies; non-power industries (e.g. including pulp/paper alongside ones already covered); carbon negative technologies (e.g. BECCS); gas-fired power plants; biomass and waste co-firing; and hydrate-based capture

Please note: this book was written and published prior to Manning's identification as Chelsea. Beginning in early 2010, Chelsea Manning leaked an astounding amount of classified information to the whistleblower website WikiLeaks: classified combat videos as well as tens of thousands of documents from the war in Afghanistan, hundreds of thousands from Iraq, and hundreds of thousands more from embassies around the globe. Almost all of WikiLeaks's headline-making releases of information have come from one source, and one source only: Chelsea Manning. Manning's story is one of global significance, yet she remains an enigma. Now, for the first time, the full truth is told about a woman who, at the age of only twenty-two, changed the world. Though the overarching narrative in media reports on Manning explain her leaks as motivated by the basest, most self-serving intentions, Private paints a far more nuanced, textured portrait of a woman haunted by demons and driven by hope, forced into an ethically fraught situation by a dysfunctional military bureaucracy. Relying on numerous conversations with those who know Manning best, this book displays how Manning's precocious intellect provided fertile ground for her sense of her own intellectual and moral superiority. It relates how a bright kid from middle America signed on to serve her

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country and found herself serving a cause far more sinister. And it explains what it takes for a person to betray her orders and fellow troops—and her own future—in order to fulfill what she sees as a higher purpose. Manning's court-martial may be the military trial of the decade, if not the century. This book is a must-read for anyone who wants to understand the woman behind it all.

Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book is an invaluable reference into this cross-disciplinary field for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to

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the developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers new case studies from a world expert in the field Covers the latest research developments in this fast moving, vital subject

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