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The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism, with profound impact in technology and serving as the basis for a revolution in electronics. Our understanding of the physics of magnetic nanostructures has also advanced significantly. This rapid development has generated a need for a comprehensive treatment that can serve as an introduction to the field for those entering it from diverse fields, but which will also serve as a timely overview for those already working in this area. The four-volume work *Ultra-Thin Magnetic Structures* aims to fulfill this dual need. The original two volumes – now available once more – are *An Introduction to the Electronic, Magnetic and Structural Properties* (this volume) and *"Measurement Techniques and Novel Magnetic Properties."* Two new volumes, *"Fundamentals of Nanomagnetism"* and *"Applications of Nanomagnetism,"* extend and complete this comprehensive work by presenting the foundations of spintronics.

Superfluid helium is a quantum liquid that exhibits a range of counter-intuitive phenomena such as frictionless flow. Quantized vortices are a particularly important feature of superfluid helium, and all superfluids, characterized by a circulation that can only take prescribed integer values. However, the strong interactions between atoms in superfluid helium prohibit quantitative theory of vortex behaviour. Experiments

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have similarly not been able to observe coherent vortex dynamics. This thesis resolves this challenge, bringing microphotonic techniques to bear on two-dimensional superfluid helium, observing coherent vortex dynamics for the first time, and achieving this on a silicon chip. This represents a major scientific contribution, as it opens the door not only to providing a better understanding of this esoteric quantum state of matter, but also to building new quantum technologies based upon it, and to understanding the dynamics of astrophysical superfluids such as those thought to exist in the core of neutron stars.

Common diseases cost the developing world an enormous amount in terms of human life, health, and productivity, as well as lost economic potential. New and effective vaccines could not only improve the quality of life for millions of residents in developing countries, they could also contribute substantially to further economic development. Using data from the World Health Organization and other international agencies, this book analyzes disease burdens, pathogen descriptions, geographic distribution of diseases, probable vaccine target populations, alternative control measures and treatments, and future prospects for vaccine development. *New Vaccine Development* provides valuable insight into immunological and international health policy priorities.

This book provides an update on our understanding of strong interaction, with theoretical and experimental highlights included. It is divided into five sections. The first section is devoted to the

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investigations into and the latest results on the mechanism of quark confinement. The second and third sections focus respectively on light and heavy quarks (effective field theories, Schwinger–Dyson approach and lattice QCD results). The fourth section deals with the deconfinement mechanism and quark–gluon plasma formation signals. The last section presents highlights of experiments, new physics beyond QCD, and nonperturbative approaches in other theories (strings and SUSY) that may be useful in QCD. Contents: Vortices, Confinement and Higgs Fields (R Bertle & M Faber) Hadronic Signature of Quark–Gluon Plasma (J Rafelski & J Letessier) Topology of Center Vortices (H Reinhardt) The Nonperturbative Quark-Gluon Vertex (J Skullerud et al.) Equivalence in Minkowski and Euclidean Field Theories (K M Maung et al.) Criterion for the Index Theorem on the Lattice (P Bicudo) Isospin Breaking in the Goldberger–Treiman Discrepancies (J L Goity & J Saez) Quantum Field Theory Approach to the Vacuum Replica in QCD (A V Nefediev & J E F T Ribeiro) Charm and Bottom Quark Masses from QCD Moment Sum Rules (M Eidemüller) Dilepton Production in Heavy-Ion Collisions: A Probe of Deconfinement (E Scomparin) Deuteron Photodisintegration at High Energy (F Ronchetti) Semianalytical Bounds on Spinless–Salpeter Energy Levels (R L Hall et al.) String Breaking and Monopoles in the 3D Abelian

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Higgs Model (M N Chernodub et al.) and other papers
Readership: Researchers in high-energy, particle, theoretical, accelerator and experimental physics. Keywords: Gauge Field Theories; Models beyond the Standard Model; Chiral

Symmetries; Perturbative and Nonperturbative QCD; Deconfinement; Hadrons

The Schrödinger equation is the master equation of quantum chemistry. The founders of quantum mechanics realised how this equation underpins essentially the whole of chemistry. However, they recognised that its exact application was much too complicated to be solvable at the time. More than two generations of researchers were left to work out how to achieve this ambitious goal for molecular systems of ever-increasing size. This book focuses on non-mainstream methods to solve the molecular electronic Schrödinger equation. Each method is based on a set of core ideas and this volume aims to explain these ideas clearly so that they become more accessible. By bringing together these non-standard methods, the book intends to inspire graduate students, postdoctoral researchers and academics to think of novel approaches. Is there a method out there that we have not thought of yet? Can we design a new method that combines the best of all worlds?

This book contains the lectures presented at the Summer Advanced Study Institute, 'Physics and

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Chemistry of Atmospheres' which was held at the University of Liege, Belgium, during the period July 29-August 9, 1974. One-hundred nineteen persons from eleven different countries attended the Institute. The authors and publisher have made a special effort for rapid publication of an up to-date status of the physics and chemistry of the atmospheres of Earth and the planets, which is an ever-changing area. Special thanks are due to the lecturers for their diligent preparation and excellent presentations. The individual lectures and the published papers were deliberately limited; the authors' cooperation in conforming to these specifications is greatly appreciated. The contents of the book are organized by subject area rather than in the order in which papers were presented during the Institute. Many thanks are due to Drs Alv Egeland, Donald M. Hunten, Gunther Lange-Hesse, Marcel Nicolet, Harold I. Schiff, Lance Thomas, Alister Vallance Jones, Richard Wayne, and Gilbert Weill who served as session chairmen during the Institute and contributed greatly to its success by skillfully directing the discussion period in a stimulating manner after each lecture. Many persons contributed to the success of the Institute. Drs Alv Egeland, Donald M. Hunten, Gunther Lange-Hesse, Marcel Nicolet, Harold I. Schiff, Erwin R. Schmerling, Lance Thomas, Alister Vallance Jones, Richard Wayne, and Gilbert Weill were especially helpful in preparing

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the technical program.

This volume originated at the 10th Granada Seminar (a series of small topical conferences whose pedagogical effort is especially aimed at young researchers), held at the University of Granada, Spain, September 15-19, 2008, and contains the main lectures and a selection of contributed papers in that conference. This is the tenth of a series of Granada Lectures previously published by: World Scientific (Singapore 1993), Springer Verlag (Berlin 1995 and 1997) Lecture Notes in Physics volumes 448 and 493, Elsevier (Amsterdam 1999) Computer Physics Communications vols. 121 and 122, and the American Institute of Physics Conference Proceedings Series, volumes 574, 661, 779 and 887. These books and the successive editions of the Seminar since 1990 are described in detail at <http://ergodic.ugr.es/cp/>. An effort has been made by authors and editors to offer pedagogical notes in the present book. In particular, each topic is comprehensively described and, eventually, some practical exercises are proposed. We try to mold the Granada Lectures into a series of books that help introduce the beginner to novel advances in statistical physics and to the creative use of computers in scientific research, as well as to serve as a work of reference for teachers, students and researchers.

Oceans are an abundant source of diverse biomaterials with potential for an array of uses. Marine Biomaterials:

Characterization, Isolation and Applications brings together the wide range of research in this important area, including the latest developments and applications, from preliminary research to clinical trials. The book is divided into four parts, with chapters written by experts from around the world.

Biomaterials described come from a variety of marine sources, such as fish, algae, microorganisms, crustaceans, and mollusks. Part I covers the isolation and characterization

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of marine biomaterials—bioceramics, biopolymers, fatty acids, toxins and pigments, nanoparticles, and adhesive materials. It also describes problems that may be encountered in the process as well as possible solutions. Part II looks at biological activities of marine biomaterials, including polysaccharides, biotoxins, and peptides. Chapters examine health benefits of the biomaterials, such as antiviral activity, antidiabetic properties, anticoagulant and anti-allergic effects, and more. Part III discusses biomedical applications of marine biomaterials, including nanocomposites, and describes applications of various materials in tissue engineering and drug delivery. Part IV explores commercialization of marine-derived biomaterials—marine polysaccharides and marine enzymes—and examines industry perspectives and applications. This book covers the key aspects of available marine biomaterials for biological and biomedical applications, and presents techniques that can be used for future isolation of novel materials from marine sources.

With active geysers coating its surface with dazzlingly bright ice crystals, Saturn's large moon Enceladus is one of the most enigmatic worlds in our solar system. Underlying this activity are numerous further discoveries by the Cassini spacecraft, tantalizing us with evidence that Enceladus harbors a subsurface ocean of liquid water. Enceladus is thus newly realized as a forefront candidate among potentially habitable ocean worlds in our own solar system, although it is only one of a family of icy moons orbiting the giant ringed planet, each with its own story. As a new volume in the Space Science Series, *Enceladus and the Icy Moons of Saturn* brings together nearly eighty of the world's top experts writing more than twenty chapters to set the foundation for what we currently understand, while building the framework for the highest-priority questions to be addressed through

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ongoing spacecraft exploration. Topics include the physics and processes driving the geologic and geophysical phenomena of icy worlds, including, but not limited to, ring-moon interactions, interior melting due to tidal heating, ejection and reaccretion of vapor and particulates, ice tectonics, and cryovolcanism. By contextualizing each topic within the profusion of puzzles beckoning from among Saturn's many dozen moons, Enceladus and the Icy Moons of Saturn synthesizes planetary processes on a broad scale to inform and propel both seasoned researchers and students toward achieving new advances in the coming decade and beyond.

This comprehensive handbook gives a fully updated guide to lasers and laser systems, including the complete range of their technical applications. The first volume outlines the fundamental components of lasers, their properties and working principles. The second volume gives exhaustive coverage of all major categories of lasers, from solid-state and semiconductor diode to fiber, waveguide, gas, chemical, and dye lasers. The third volume covers modern applications in engineering and technology, including all new and updated case studies spanning telecommunications and data storage to medicine, optical measurement, defense and security, nanomaterials processing and characterization.

Girolamo Zanchi's *De religione christiana fides* offers an insight into his mature theology and reflects the development of Reformed dogmatics and polemic more generally in the late 16th century. It therefore provides an interesting picture of the theology of a whole era.

Written by the world's leading shoulder surgeons, this

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volume offers much-needed guidance on managing complex and revision problems that cannot be solved by standard treatment formulas. The authors present successful approaches with illustrative case examples, emphasizing avoidance of common pitfalls and management of complications. This edition has a greater focus on arthroscopic procedures and includes full-color arthroscopic images. New chapters cover arthroscopic rotator cuff reconstruction, idiopathic and diabetic stiff shoulder, alternatives to arthroplasty, and the failed arthroplasty. The thoroughly revised fractures section includes new information on two-, three-, and four-part fractures and AC/SC fractures. This edition contains over 800 illustrations.

The Monthly Army List
Neuropsychopharmacology
The Fifth Generation of Progress : an Official Publication of the American College of Neuropsychopharmacology
Lippincott Williams & Wilkins

Thoroughly updated and completely reorganized for a sharper clinical focus, the Fifth Edition of this world-renowned classic synthesizes the latest advances in basic neurobiology, biological psychiatry, and clinical neuropsychopharmacology. The book establishes a critical bridge connecting new discoveries in molecular and cellular biology, genetics, and neuroimaging with the etiology, diagnosis, and treatment of all neuropsychiatric disorders. Nine sections focus on specific groups of disorders, covering clinical course, genetics, neurobiology, neuroimaging, and current and emerging therapeutics. Four sections cover neurotransmitter and signal transduction, emerging methods in molecular biology and genetics, emerging imaging technologies and their psychiatric applications, and drug discovery and evaluation.

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Compatibility: BlackBerry(R) OS 4.1 or Higher / iPhone/iPod Touch 2.0 or Higher /Palm OS 3.5 or higher / Palm Pre Classic / Symbian S60, 3rd edition (Nokia) / Windows Mobile(TM) Pocket PC (all versions) / Windows Mobile Smartphone / Windows 98SE/2000/ME/XP/Vista/Tablet PC

Explores the role of biomarker data in evaluating the impact of human environmental and occupational exposure to pesticides. Focuses on two types of biomarkers: residue analysis of parent compounds or metabolites and end points representing interactions between xenobiotic and endogenous components. Characterizes the molecular basis of various biomarker methods and examines structure-activity relationships. Surveys biomarker measurement methods currently in use and examines methods for biomarker data analysis and applications of these methods to risk assessment.

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