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Semiconductor Physics Sandip Tiwari  
2020 This text brings together  
traditional solid-state approaches  
from the 20th century with

developments of the early part of the  
21st century, to reach an  
understanding of semiconductor  
physics in its multifaceted forms. It  
reveals how an understanding of what

happens within the material can lead to insights into what happens in its use.

*British Journal of Applied Physics*  
1954

Statistical and Thermal Physics M.D. Sturge 2018-10-08 This book is based on many years of teaching statistical and thermal physics. It assumes no previous knowledge of thermodynamics, kinetic theory, or probability---the only prerequisites are an elementary knowledge of classical and modern physics, and of multivariable calculus. The first half of the book introduces the subject inductively but rigorously, proceeding from the concrete and specific to the abstract and general. In clear physical language the book explains the key concepts, such as temperature, heat, entropy, free energy, chemical

potential, and distributions, both classical and quantum. The second half of the book applies these concepts to a wide variety of phenomena, including perfect gases, heat engines, and transport processes. Each chapter contains fully worked examples and real-world problems drawn from physics, astronomy, biology, chemistry, electronics, and mechanical engineering.

Causation and Its Basis in Fundamental Physics Douglas Kutach 2013-08-30 This book is the first comprehensive attempt to solve what Hartry Field has called "the central problem in the metaphysics of causation": the problem of reconciling the need for causal notions in the special sciences with the limited role of causation in

physics. If the world evolves fundamentally according to laws of physics, what place can be found for the causal regularities and principles identified by the special sciences? Douglas Kutach answers this question by invoking a novel distinction between fundamental and derivative reality and a complementary conception of reduction. He then constructs a framework that allows all causal regularities from the sciences to be rendered in terms of fundamental relations. By drawing on a methodology that focuses on explaining the results of specially crafted experiments, Kutach avoids the endless task of catering to pre-theoretical judgments about causal scenarios. This volume is a detailed case study that uses fundamental

physics to elucidate causation, but technicalities are eschewed so that a wide range of philosophers can profit. The book is packed with innovations: new models of events, probability, counterfactual dependence, influence, and determinism. These lead to surprising implications for topics like Newcomb's paradox, action at a distance, Simpson's paradox, and more. Kutach explores the special connection between causation and time, ultimately providing a never-before-presented explanation for the direction of causation. Along the way, readers will discover that events cause themselves, that low barometer readings do cause thunderstorms after all, and that we humans routinely affect the past more than we affect the future.

### **Concise Oxford Spanish Dictionary**

Carol Styles Carvajal 2004 Up-to-date coverage of more 170,000 words and phrases, and 240,000 translations, as well as notes on the life and culture of countries of the Spanish-speaking world, are provided in an authoritative, concise dictionary.

### **Sturge's Statistical and Thermal Physics, Second Edition**

Jeffrey Olafsen 2019-06-30 The original work by M.D. Sturge has been updated and expanded to include new chapters covering non-equilibrium and biological systems. This second edition re-organizes the material in a more natural manner into four parts that continues to assume no previous knowledge of thermodynamics. The four divisions of the material introduce the subject inductively and rigorously, beginning with key

concepts of equilibrium thermodynamics such as heat, temperature and entropy. The second division focuses on the fundamentals of modern thermodynamics: free energy, chemical potential and the partition function. The second half of the book is then designed with the flexibility to meet the needs of both the instructor and the students, with a third section focused on the different types of gases: ideal, Fermi-Dirac, Bose-Einstein, Black Body Radiation and the Photon gases. In the fourth and final division of the book, modern thermostatistical applications are addressed: semiconductors, phase transitions, transport processes, and finally the new chapters on non-equilibrium and biological systems. Key Features: Provides the most readable, thorough

introduction to statistical physics and thermodynamics, with magnetic, atomic, and electrical systems addressed alongside development of fundamental topics at a non-rigorous mathematical level Includes brand-new chapters on biological and chemical systems and non-equilibrium thermodynamics, as well as extensive new examples from soft condensed matter and correction of typos from the prior edition Incorporates new numerical and simulation exercises throughout the book Adds more worked examples, problems, and exercises

**Photonic Crystals** John D.

Joannopoulos 2011-10-30 Since it was first published in 1995, Photonic Crystals has remained the definitive text for both undergraduates and researchers on photonic band-gap materials and their use in

controlling the propagation of light. This newly expanded and revised edition covers the latest developments in the field, providing the most up-to-date, concise, and comprehensive book available on these novel materials and their applications. Starting from Maxwell's equations and Fourier analysis, the authors develop the theoretical tools of photonics using principles of linear algebra and symmetry, emphasizing analogies with traditional solid-state physics and quantum theory. They then investigate the unique phenomena that take place within photonic crystals at defect sites and surfaces, from one to three dimensions. This new edition includes entirely new chapters describing important hybrid structures that use band gaps or periodicity only in some

directions: periodic waveguides, photonic-crystal slabs, and photonic-crystal fibers. The authors demonstrate how the capabilities of photonic crystals to localize light can be put to work in devices such as filters and splitters. A new appendix provides an overview of computational methods for electromagnetism. Existing chapters have been considerably updated and expanded to include many new three-dimensional photonic crystals, an extensive tutorial on device design using temporal coupled-mode theory, discussions of diffraction and refraction at crystal interfaces, and more. Richly illustrated and accessibly written, *Photonic Crystals* is an indispensable resource for students and researchers. Extensively revised and expanded Features

improved graphics throughout Includes new chapters on photonic-crystal fibers and combined index-and band-gap-guiding Provides an introduction to coupled-mode theory as a powerful tool for device design Covers many new topics, including omnidirectional reflection, anomalous refraction and diffraction, computational photonics, and much more.

New Scientist 2000

*Calculations for A Level Physics* J F Rounce 2020-10-08 A revised edition of the best-selling, most widely used and respected physics calculations book.

*Quantum Computation and Quantum Information* Michael A. Nielsen 2010-12-09 One of the most cited books in physics of all time, *Quantum Computation and Quantum Information* remains the best textbook in this

exciting field of science. This 10th anniversary edition includes an introduction from the authors setting the work in context. This comprehensive textbook describes such remarkable effects as fast quantum algorithms, quantum teleportation, quantum cryptography and quantum error-correction. Quantum mechanics and computer science are introduced before moving on to describe what a quantum computer is, how it can be used to solve problems faster than 'classical' computers and its real-world implementation. It concludes with an in-depth treatment of quantum information. Containing a wealth of figures and exercises, this well-known textbook is ideal for courses on the subject, and will interest beginning graduate students and researchers in physics, computer

science, mathematics, and electrical engineering.

**Mathematical Reviews** 2007

The Oxford Solid State Basics Steven H. Simon 2013-06-20 This is a first undergraduate textbook in Solid State Physics or Condensed Matter Physics. While most textbooks on the subject are extremely dry, this book is written to be much more exciting, inspiring, and entertaining.

*Oxford Dictionary of English* Angus Stevenson 2010-08-19 The Oxford Dictionary of English offers authoritative and in-depth coverage of over 350,000 words, phrases, and meanings. The foremost single-volume authority on the English language.

New Scientist 1988-06-30 New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific

discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

### **Information, Physics, and Computation**

Marc Mézard 2009-01-22 A very active field of research is emerging at the frontier of statistical physics, theoretical computer science/discrete mathematics, and coding/information theory. This book sets up a common language and pool of concepts, accessible to students and researchers from each of these fields.

*New Scientist* 1987-06-25 New Scientist magazine was launched in 1956 "for all those men and women who

are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

**Physics on Your Feet: Berkeley Graduate Exam Questions** Dmitry Budker 2015 A collection of physics problems and solutions, full of dry humour and enjoyable cartoons. This book provides a helpful guide for PhD-exam preparation and a review of all major areas of classical and modern physics, and will teach readers some of the quirky ways in which physicists think.

**An Introduction to Quantum Computing** Phillip Kaye 2006-11-17 This concise,



accessible text provides a thorough introduction to quantum computing - an exciting emergent field at the interface of the computer, engineering, mathematical and physical sciences. Aimed at advanced undergraduate and beginning graduate students in these disciplines, the text is technically detailed and is clearly illustrated throughout with diagrams and exercises. Some prior knowledge of linear algebra is assumed, including vector spaces and inner products. However, prior familiarity with topics such as quantum mechanics and computational complexity is not required.

*Journal of the Physical Society of Japan* 2009

Mathematics for Machine Learning Marc Peter Deisenroth 2020-04-23 Distills key concepts from linear algebra,

geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.

### **The Physics of Quantum Mechanics**

James Binney 2013-12 "First published by Cappella Archive in 2008."

Subtle is the Lord Abraham Pais 2005-08-25 Subtle is the Lord is widely recognized as the definitive scientific biography of Albert Einstein. The late Abraham Pais was a distinguished physicist turned historian who knew Einstein both professionally and personally in the last years of his life. His biography combines a profound understanding of Einstein's work with personal recollections from their years of acquaintance, illuminating the man through the development of his scientific thought. Pais examines the

formulation of Einstein's theories of relativity, his work on Brownian motion, and his response to quantum theory with authority and precision. The profound transformation Einstein's ideas effected on the physics of the turn of the century is here laid out for the serious reader. Pais also fills many gaps in what we know of Einstein's life - his interest in philosophy, his concern with Jewish destiny, and his opinions of great figures from Newton to Freud. This remarkable volume, written by a physicist who mingled in Einstein's scientific circle, forms a timeless and classic biography of the towering figure of twentieth-century science.

*The Langevin Equation* William Coffey  
1996 The book is suitable for a lecture course on the theory of

Brownian motion, being based on final year undergraduate lectures given at Trinity College, Dublin. Topics that are discussed include: white noise; the Chapman-Kolmogorov equation ? Kramers-Moyal expansion; the Langevin equation; the Fokker-Planck equation; Brownian motion of a free particle; spectral density and the Wiener-Khintchin theorem ? Brownian motion in a potential application to the Josephson effect, ring laser gyro; Brownian motion in two dimensions; harmonic oscillators; itinerant oscillators; linear response theory; rotational Brownian motion; application to loss processes in dielectric and ferrofluids; superparamagnetism and nonlinear relaxation processes. As the first elementary book on the Langevin equation approach to Brownian motion,

this volume attempts to fill in all the missing details which students find particularly hard to comprehend from the fundamental papers contained in the Dover reprint ? Selected Papers on Noise and Stochastic Processes, ed. N Wax (1954) ? together with modern applications particularly to relaxation in ferrofluids and polar dielectrics. *Geometry and Physics: Volume I* Jørgen Ellegaard Andersen 2018-10-18 Nigel Hitchin is one of the world's foremost figures in the fields of differential and algebraic geometry and their relations with mathematical physics, and he has been Savilian Professor of Geometry at Oxford since 1997. *Geometry and Physics: A Festschrift in honour of Nigel Hitchin* contain the proceedings of the conferences held in September

2016 in Aarhus, Oxford, and Madrid to mark Nigel Hitchin's 70th birthday, and to honour his far-reaching contributions to geometry and mathematical physics. These texts contain 29 articles by contributors to the conference and other distinguished mathematicians working in related areas, including three Fields Medallists. The articles cover a broad range of topics in differential, algebraic and symplectic geometry, and also in mathematical physics. These volumes will be of interest to researchers and graduate students in geometry and mathematical physics.

**Atomic Physics** Paul Ewart 2019-02-28 *Atomic Physics* provides a concise treatment of atomic physics and a basis to prepare for work in other disciplines that are underpinned by

atomic physics such as chemistry, biology and several aspects of engineering science. The focus is mainly on atomic structure since this is what is primarily responsible for the physical properties of atoms. After a brief introduction to some basic concepts, the perturbation theory approach follows the hierarchy of interactions starting with the largest. The other interactions of spin, and angular momentum of the outermost electrons with each other, the nucleus and external magnetic fields are treated in order of descending strength. A spectroscopic perspective is generally taken by relating the observations of atomic radiation emitted or absorbed to the internal energy levels involved. X-ray spectra are then discussed in relation to the energy levels of the

innermost electrons. Finally, a brief description is given of some modern, laser based, spectroscopic methods for the high resolution study of the next details of atomic structure. *Issues in Biomedical Engineering Research and Application: 2013 Edition* 2013-05-01 Issues in Biomedical Engineering Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Reproductive Biomedicine. The editors have built Issues in Biomedical Engineering Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Reproductive Biomedicine in this book to be deeper than what you can access anywhere else, as well as

consistently reliable, authoritative, informed, and relevant. The content of Issues in Biomedical Engineering Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

**Quantum Physics of Semiconductor Materials and Devices** Debdeep Jena  
2022-05-26 "Quantum Phenomena do not occur in a Hilbert space. They occur in a laboratory". - Asher Peres

Semiconductor physics is a laboratory to learn and discover the concepts of quantum mechanics and thermodynamics, condensed matter physics, and materials science, and the payoffs are almost immediate in the form of useful semiconductor devices. Debdeep Jena has had the opportunity to work on both sides of the fence - on the fundamental materials science and quantum physics of semiconductors, and in their applications in semiconductor electronic and photonic devices. In Quantum Physics of Semiconductors and Nanostructures, Jena uses this experience to make each topic as tangible and accessible as possible to students at all levels. Consider the simplest physical processes that occur in semiconductors: electron or hole transport in bands and over barriers,

collision of electrons with the atoms in the crystal, or when electrons and holes annihilate each other to produce a photon. The correct explanation of these processes require a quantum mechanical treatment. Any shortcuts lead to misconceptions that can take years to dispel, and sometimes become roadblocks towards a deeper understanding and appreciation of the richness of the subject. A typical introductory course on semiconductor physics would then require prerequisites of quantum mechanics, statistical physics and thermodynamics, materials science, and electromagnetism. Rarely would a student have all this background when (s)he takes a course of this nature in most universities. Jena's work fills in these gaps and gives

students the background and deeper understanding of the quantum physics of semiconductors and nanostructures. Physics on Your Feet: Berkeley Graduate Exam Questions Dmitry Budker 2021-10-26 Physics on Your Feet (2nd Edition) is a significantly expanded collection of physics problems covering the broad range of topics in classical and modern physics that were, or could have been, asked at oral PhD exams at University of California at Berkeley. The questions are easy to formulate, but some of them can only be answered using an outside-of-the box approach. Detailed solutions are provided, from which the reader is guaranteed to learn a lot about the physicists' way of thinking. The book is also packed full of cartoons and dry humor to help take the edge off the stress and

anxiety surrounding exams. This is a helpful guide for students preparing for their exams, as well as a resource for university lecturers looking for good instructive problems. No exams are necessary to enjoy the book!

**AQA Physics: A Level** Jim Breithaupt  
2016-05-05 Please note this title is suitable for any student studying:  
Exam Board: AQA Level: A Level  
Subject: Physics First teaching: September 2015 First exams: June 2017  
Fully revised and updated for the new linear qualification, this Student Book supports and extends students through the new course whilst delivering the maths, practical and synoptic skills needed to succeed in the new A Levels and beyond. The book uses clear straightforward explanations to develop real subject

knowledge and allow students to link ideas together while developing essential exam skills. N.B.Covers all optional AQA Physics topics with introduction and summary sections; full support for each option is provided on AQA A Level Physics Kerboodle.

Information, Physics, and Computation  
Marc Mézard 2009-01-22 This book presents a unified approach to a rich and rapidly evolving research domain at the interface between statistical physics, theoretical computer science/discrete mathematics, and coding/information theory. It is accessible to graduate students and researchers without a specific training in any of these fields. The selected topics include spin glasses, error correcting codes, satisfiability, and are central to

each field. The approach focuses on large random instances and adopts a common probabilistic formulation in terms of graphical models. It presents message passing algorithms like belief propagation and survey propagation, and their use in decoding and constraint satisfaction solving. It also explains analysis techniques like density evolution and the cavity method, and uses them to study phase transitions.

*Orbital Mechanics for Engineering Students* Howard D Curtis 2009-10-26  
*Orbital Mechanics for Engineering Students, Second Edition*, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the

classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential



equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

Oxford Textbook of Attention Deficit Hyperactivity Disorder Tobias

Banaschewski 2018-05-11 Attention deficit hyperactivity disorder (ADHD) is one of the most common mental disorders affecting children and adolescents. The condition is characterized by a persistent pattern of behavioural symptoms including inattentiveness, hyperactivity, and

impulsiveness associated with substantial impairment in social, academic, and/or occupational functioning. Clinical and research interest in the topic of ADHD has grown substantially in recent years but, despite this, there is still a lack of up-to-date reference texts devoted to the diagnosis, assessment, and management of patients with these conditions. Part of the Oxford Textbooks in Psychiatry series, the Oxford Textbook of Attention Deficit Hyperactivity Disorder attempts to bridge this gap by providing an authoritative, multi-disciplinary guide to the latest research developments in the diagnosis, assessment, and management of patients with ADHD. Organized into eight key sections, this textbook covers the aetiology,

pathophysiology, epidemiology, clinical presentation, co-morbidity, clinical assessment, and clinical management of ADHD. Individual chapters address key topics such as the clinical assessment of ADHD in adults, and contain information on best practice, current diagnostic guidelines including DSM-5 and ICD-11, and key up-to-date references for further reading. Edited and written by an international group of recognized experts, the Oxford Textbook of Attention Deficit Hyperactivity Disorder is a comprehensive resource suitable for child and adolescent psychiatrists, adult psychiatrists, and psychiatric trainees, as well as child psychologists, paediatricians, psychiatric nurses, and other mental health care professionals.

**Nanoscale Device Physics** Sandip Tiwari 2017 The primary advanced textbook for the teaching of science and engineering of nanoscale devices as used in the semiconductor, electronics, magnetics, optics and electromechanics industry.

*The Oxford Handbook of Psychology and Spirituality* Lisa J. Miller

2012-08-23 Postmaterial spiritual psychology posits that consciousness can contribute to the unfolding of material events and that the human brain can detect broad, non-material communications. In this regard, this emerging field of postmaterial psychology marks a stark departure from psychology's traditional quantum measurements and tenets. The Oxford Handbook of Psychology and Spirituality codifies the leading empirical evidence in the support and

application of postmaterial psychological science. Sections in this volume include: - personality and social psychology factors and implications - spiritual development and culture - spiritual dialogue, prayer, and intention in Western mental health - Eastern traditions and psychology - physical health and spirituality - positive psychology - scientific advances and applications related to spiritual psychology With chapters from leading scholars in psychology, medicine, physics, and biology, *The Oxford Handbook of Psychology and Spirituality* is an interdisciplinary reference for a rapidly emerging approach to contemporary science. This overarching work provides both a foundation and a roadmap for what is truly a new ideological age.

**Atomic Physics** C.J. Foot 2005 This book describes atomic physics and the latest advances in this field at a level suitable for fourth year undergraduates. The numerous examples of the modern applications of atomic physics include Bose-Einstein condensation of atoms, matter-wave interferometry and quantum computing with trapped ions.

Amplified Advantage Allison L. Hurst 2019-11-15 *Amplified Advantage* investigates the value and impact of today's small liberal arts colleges through an extended examination of a recent cohort of students attending them. It demonstrates how these colleges sometimes succeed and sometimes fail in equalizing the experience of all their students. But there is more to the book than that. Although primarily an account of life

and learning at small liberal arts colleges in the US today, scholars will find much of theoretical interest underlying the account. The context of the small liberal arts college is used to unpack how class works. Unlike many other books written about class in college, *Amplified Advantage* is not exclusively focused on how some students fare less well than their peers, but rather how all students' strategies are affected by their past experiences and classed expectations, particularly in the context of growing inequality. *Amplified Advantage* draws on Bourdieu's theory of class, particularly his concepts of capitals operating in a field, and habitus as way of understanding agent's structured but generative choices, to demonstrate how

inequalities are met, resisted, and ultimately reproduced across generations. Chapter by chapter, the book lays out the many ways that class continues to play a role in the college experience, from choosing a major, to frequency of faculty interaction, to participation in the extra-curriculum. The last chapters demonstrate the differential burden of debt on graduates and the impact of varied parental support after graduation. *Amplified Advantages* adds to our understanding of how class works, the impact of parents and families on social reproduction, and the ways that colleges and universities can contribute to or reduce inequalities.

**AQA Physics: A Level Year 1 and AS**

Jim Breithaupt 2016-05-05 Please note this title is suitable for any

student studying: Exam Board: AQA  
Level: AS Level Subject: Physics  
First teaching: September 2015 First  
exams: June 2016 Fully revised and  
updated for the new linear  
qualification, written and checked by  
curriculum and specification experts,  
this Student Book supports and  
extends students through the new  
course whilst delivering the maths,  
practical and synoptic skills needed  
to succeed in the new A Levels and  
beyond. The book uses clear  
straightforward explanations to  
develop real subject knowledge and  
allow students to link ideas together  
while developing essential exam  
skills.

New Understanding Physics for  
Advanced Level Jim Breithaupt 2000  
Revised and improved for all new  
advanced level syllabuses, this pack

pays particular emphasis to the new  
core and option topics and to the  
skills necessary to succeed in  
physics. Hundreds of experiments are  
discussed and worked examples  
presented.

Polymer Solutions Iwao Teraoka  
2004-04-07 Polymer Solutions: An  
Introduction to Physical Properties  
offers a fresh, inclusive approach to  
teaching the fundamentals of physical  
polymer science. Students,  
instructors, and professionals in  
polymer chemistry, analytical  
chemistry, organic chemistry,  
engineering, materials, and textiles  
will find Iwao Teraoka's text at once  
accessible and highly detailed in its  
treatment of the properties of  
polymers in the solution phase.  
Teraoka's purpose in writing Polymer  
Solutions is twofold: to familiarize

the advanced undergraduate and beginning graduate student with basic concepts, theories, models, and experimental techniques for polymer solutions; and to provide a reference for researchers working in the area of polymer solutions as well as those in charge of chromatographic characterization of polymers. The author's incorporation of recent advances in the instrumentation of size-exclusion chromatography, the method by which polymers are analyzed, renders the text particularly topical. Subjects discussed include: Real, ideal, Gaussian, semirigid, and branched polymer chains Polymer solutions and thermodynamics Static light scattering of a polymer solution Dynamic light scattering and diffusion of polymers Dynamics of

dilute and semidilute polymer solutions Study questions at the end of each chapter not only provide students with the opportunity to test their understanding, but also introduce topics relevant to polymer solutions not included in the main text. With over 250 geometrical model diagrams, Polymer Solutions is a necessary reference for students and for scientists pursuing a broader understanding of polymers.

**Geometry and Physics** Jørgen Ellegaard Andersen 2018 Nigel Hitchin is one of the world's foremost figures in the fields of differential and algebraic geometry and their relations with mathematical physics, and he has been Savilian Professor of Geometry at Oxford since 1997. Geometry and Physics: A Festschrift in honour of Nigel Hitchin contain the proceedings

of the conferences held in September 2016 in Aarhus, Oxford, and Madrid to mark Nigel Hitchin's 70th birthday, and to honour his far-reaching contributions to geometry and mathematical physics. These texts contain 29 articles by contributors to the conference and other distinguished mathematicians working

in related areas, including three Fields Medallists. The articles cover a broad range of topics in differential, algebraic and symplectic geometry, and also in mathematical physics. These volumes will be of interest to researchers and graduate students in geometry and mathematical physics.