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Femtosecond Laser-Matter Interaction Theory, Experiments and Applications *CRC Press* This is the first comprehensive treatment of the interaction of femtosecond laser pulses with solids at nonrelativistic intensity. It connects phenomena from the subtle atomic motion on the nanoscale to the generation of extreme pressure and temperature in the interaction zone confined inside a solid. The femtosecond laser-matter interaction has already found numerous applications in industry, medicine, and materials science. However, there is no consensus on the interpretation of related phenomena. With mathematics kept to a minimum, this is a highly engaging and readable treatment for students and researchers in science and engineering. The book avoids complex mathematical formulae, and hence the content is accessible to nontechnical readers. Useful summaries after each chapter provide compressed information for quick estimates of major parameters in planned or performed experiments. The book connects the basic physics of femtosecond laser-solid interactions to a broad range of applications. Through the text, basic assumptions are derived from the first principles, and new results and ideas are presented. From such analyses, a qualitative and predictive framework for the field emerges, the impact of which on applications is also discussed. **Femtosecond Laser-Matter Interactions Solid-Plasma-Solid Transformations at the Extreme Energy Density** *CRC Press* This book describes the ultra-short laser-matter interactions from the subtle atomic motion to the generation of extreme pressures inside the bulk of a transparent crystal. It is the successor to **Femtosecond Laser-Matter Interactions: Theory, Experiment and Applications (2011)**. Explanation and experimental verification of the exceptional technique for the phase transformations under high pressure are in the core of the book. The novel phase formation occurs along the unique solid-plasmasolid transformation path: the memory of the initial state is lost after conversion to plasma. New phase forms from chaos during the cooling to the ambient. The pressure-affected material remains detained inside a pristine crystal at the laboratory tabletop. Unique super-dense aluminium and new phases of silicon were created by the confined micro-explosions. The text also describes the recent studies that used the quasi-non-diffracting Bessel beams. The applications comprise the new high-pressure material formation and micromachining. The book is an appealing source for readers interested in the cutting-edge research exploring extreme conditions and creating nanostructures at the laboratory tabletop. **Care at the End of Life An Economic Perspective** *Springer* This work carefully guides the reader through the methodological, policy and ethical challenges facing health economists conducting research in palliative care. It has collected the opinions of many cutting-edge researchers. Those who design and conduct economic evaluations or economics-related research in end of life populations will find this book thought provoking, instructive and informative. The provision of care to individuals with disorders associated with advancing age, such as cancer and dementia, is an increasing concern amongst policy makers and providers of health and social care. Accordingly, the burden on state and private funders in providing care to patients with these complex illnesses is of growing importance to health economists. However, answering the questions raised by the research community on end of life and palliative care health economics has received little attention. The authors shed light on many questions including: Are economic evaluation methods fit for purpose in patients at the end of life? What is the best way to measure and value health outcomes in this population? What are the appropriate societal rules to govern resource allocation for people at the end of life? Are these people more or less deserving of resources than other patients? Does age matter? How can we define a good death for the purposes of resource allocation decision making? What ethics govern research in end of life patients? **Cardiovascular Clinical Trials Putting the Evidence into Practice** *John Wiley & Sons* The pace of therapeutic advances in the treatment of cardiovascular diseases is rapid, and new clinically-relevant information appears with such frequency that it can be extremely challenging for clinicians to keep up. Still, knowledge and interpretation of major clinical trials is crucial for the range of clinicians who manage cardiovascular patients, especially since important trial evidence often needs to be implemented soon after it is published. Confidently apply gold standard treatment for 10 of the most critical areas of cardiology. Written by an international team of experts, **Cardiovascular Clinical Trials: Putting the Evidence into Practice**: Provides a succinct overview of recent major clinical trials - the gold standard for all medical treatment - across all the major cardiovascular subspecialties, to ensure you're up-to-date on the most critical findings. **Guides cardiology trainees and clinicians on how cardiovascular clinical trials are designed and conducted, including statistical methodology, so you can conduct and/or appraise future trials yourself** **Addresses methodology as well as clinical effectiveness** **Offers evidence-based assessments on the most effective treatments and authoritative clinical information on management of the conditions so you can confidently apply what you learn** **Physicians, surgeons, specialist nurses - any clinician seeking an accessible resource for designing and conducting cardiovascular trials and then translating their results into practice will appreciate this book's clear guidance and succinct and practical approach.** **Homicide-Suicides in Romania Statistical Data and Media Representations** *Lang, Peter Frankfurt* This book examines homicide-suicides in post-communist Romania (2002-2013). The author analyzes statistical data from legal records, police registers, and online newspapers discussing the way in which the victims and aggressors of homicide-suicides are represented in cases of homicide-, femicide-, familicide- and filicide-suicides. " **The Routledge Handbook of Medical Anthropology** *Routledge* The Routledge Handbook of Medical Anthropology provides a contemporary overview of the key themes in medical anthropology. In this exciting departure from conventional handbooks, compendia and encyclopedias, the three editors have written the core chapters of the volume, and in so doing, invite the reader to reflect on the ethnographic richness and theoretical contributions of research on the clinic and the field, bioscience and medical research, infectious and non-communicable diseases, biomedicine, complementary and alternative modalities, structural violence and vulnerability, gender and ageing, reproduction and sexuality. As a way of illustrating the themes, a rich variety of case studies are included, presented by over 60 authors from around the world, reflecting the diverse cultural contexts in which people experience health, illness, and healing. Each chapter and its case studies are introduced by a photograph, reflecting medical and visual anthropological responses to inequality and vulnerability. An indispensable reference in this fastest growing area of anthropological study, **The Routledge Handbook of Medical Anthropology** is a unique and innovative contribution to the field. **Traditional Mediterranean Architecture Public Health: A Very Short Introduction** *Oxford University Press* Public health is a term much used in the media, by health professionals, and by activists. At the national or the local level there are ministries or departments of public health, whilst international agencies such as the World Health Organisation promote public health policies, and regional organisations such as the European Union have public health funding and policies. But what do we mean when we speak about 'public health'? In this Very Short Introduction Virginia Berridge explores the areas which fall under the remit of public health, and explains how the individual histories of different countries have come to cause great differences in the perception of the role and responsibilities of public health organisations. Thus, in the United States litigation on public health issues is common, but state involvement is less, while some Scandinavian countries have a tradition of state involvement or even state ownership of industries such as alcohol in connection with public health. In its narrowest sense, public health can refer to the health of a population, the longevity of individual members, and their freedom from disease, but it can also be anticipatory, geared to the prevention of illness, rather than simply the provision of care and treatment. In the way public health deals with healthy as well as sick people it is therefore a separate concept from health services, which deal with the sick population. Drawing on a wide range of international examples, Berridge demonstrates the central role of history to understanding the amorphous nature of public health today. **ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.** **Global Health Research in an Unequal World Ethics Case Studies from Africa** This book is a collection of fictionalized case studies of everyday ethical dilemmas and challenges, encountered in the process of conducting global health research in places where the effects of political and economic inequality are particularly evident. It is a training tool to fill the gap between research ethics guidelines and their implementation "on the ground." The cases focus on "relational" ethics: ethical actions and ideas that continuously emerge through relations with others, rather than being determined by bioethics regulation. They are based on stories and experiences collected by a group of social anthropologists who have worked with leading transnational medical research organizations across Africa in the past decade. Accompanied by guidelines, discussion questions and selected further readings, the book provides a flexible resource for training and self-study for people engaged in health research with universities, international collaborative sites and NGOs and for everyone interested in the realities of global health research today." **Architecture and Mathematics from Antiquity to the Future Volume II: The 1500s to the Future** *Birkhäuser* Every age and every culture has relied on the incorporation of mathematics in their works of architecture to imbue the built environment with meaning and order. Mathematics is also central to the production of architecture, to its methods of measurement, fabrication and analysis. This two-volume edited collection presents a detailed portrait of the ways in which two seemingly different disciplines are interconnected. Over almost 100 chapters it illustrates and examines the relationship between architecture and mathematics. Contributors of these chapters come from a wide range of disciplines and backgrounds: architects, mathematicians, historians, theoreticians, scientists and educators. Through this work, architecture may be seen and understood in a new light, by professionals as well as non-professionals. Volume II covers architecture from the Late Renaissance era, through Baroque, Ottoman, Enlightenment, Modern and contemporary styles and approaches. Key figures covered in this volume include Palladio, Michelangelo, Borromini, Sinan, Wren, Wright, Le Corbusier, Breuer, Niemeyer and Kahn. Mathematical themes which are considered include linear algebra, tiling and fractals and the geographic span of the volume's content includes works in the United States of America and Australia, in addition to those in Europe and Asia. **Concepts of Addictive Substances and Behaviours Across Time and Place** *Oxford University Press* **Concepts of Addictive Substances and Behaviours across Time and Place** presents fascinating new research in European addiction studies which examines the temporal and spatial variations of addiction behaviours in European societies. The work centres on the relationship between local and global trends in behaviours, and sets out a framework for understanding the roles played by different social actors. The expert team of authors have assembled findings from three main research areas: the regionally-bound language-use tied to addiction problems, localised concepts and ideas about addictive behaviour, and the relationship between global and regional trends in addictive behaviour. The work develops a framework for understanding the roles played by the various stakeholders in European societies when addressing and solving the problems associated with addiction, and the perception of addiction problems is discussed as part of an integrated system of knowledge-based governance. **Concepts of Addictive Substances and Behaviours across Time and Place** is based on research from ALICE RAP, a multidisciplinary European study of addictive substances and behaviours in contemporary society. This is an essential resource for public health professionals, stakeholders influencing policy for addictive substances and behaviours, students, and academics looking to better understand the

historical and geographical variations of addictive behaviours across in Europe and the role of stakeholder involvement in the construction of addiction prevention policy. Values Deliberation and Collective Action Community Empowerment in Rural Senegal *Springer* This book describes how a program of values deliberations--sustained group reflections on local values, aspirations, beliefs and experiences, blending with discussions of how to understand and to realize human rights--led to individual and collective empowerment in communities in rural Senegal. The study explains what happens during the deliberations and shows how they bring about a larger process that results in improved capabilities in areas such as education, health, child protection, and gender equality. It shows how participants, particularly women, enhance their agency, including their individual and collective capacities to play public roles and kindle community action. It thus provides important insights on how values deliberations help to revise adverse gender norms. Amebiasis Biology and Pathogenesis of Entamoeba *Springer* This book documents and presents new developments in the study of amebiasis, one of the neglected tropical diseases. Nearly 50 million people worldwide are infected with the pathogen *Entamoeba histolytica*, causing large-scale morbidity and mortality particularly in developing countries. This book will help clinicians for better diagnosis and management of the disease, researchers for initiating research projects on some of the poorly understood aspects of the disease and the pathogen, and students for updating their knowledge. The subjects covered range from genomics and molecular and cell biology to drug resistance and new drug development, highlighting major advances in recent years in our understanding due to rapid progress in genomic and other biomedical technologies, such as visualization of molecular processes. Most of the chapters provide recent information based on latest publications. A few chapters describe some of the critical methodological issues that will be helpful for students and researchers interested in getting into the field. The contributing authors include almost all the active researchers and clinicians from around the world. This book will be a useful primary material and a valuable source of information for anyone interested in understanding amebiasis, its diagnosis, and treatment. It will also be useful to those who are interested in learning about the biology of early branching eukaryotes and protist pathogens. Pleasure With Products Beyond Usability *CRC Press* The last five years have seen a major paradigm shift in the role of human factors in product design. Previously this was seen as pertaining almost exclusively to product usability, but new recognition is being given to "pleasure-based" human factors. This emphasizes the holistic nature of the experience of person-product interaction. While tradition To Fix Or To Heal Patient Care, Public Health, and the Limits of Biomedicine *NYU Press* Do doctors fix patients? Or do they heal them? For all of modern medicine's many successes, discontent with the quality of patient care has combined with a host of new developments, from aging populations to the resurgence of infectious diseases, which challenge medicine's overreliance on narrowly mechanistic and technical methods of explanation and intervention, or "fixing" patients. The need for a better balance, for more humane "healing" rationales and practices that attend to the social and environmental aspects of health and illness and the experiencing person, is more urgent than ever. Yet, in public health and bioethics, the fields best positioned to offer countervailing values and orientations, the dominant approaches largely extend and reinforce the reductionism and individualism of biomedicine. The collected essays in To Fix or To Heal do more than document the persistence of reductionist approaches and the attendant extension of medicalization to more and more aspects of our lives. The contributors also shed valuable light on why reductionism has persisted and why more holistic models, incorporating social and environmental factors, have gained so little traction. The contributors examine the moral appeal of reductionism, the larger rationalist dream of technological mastery, the growing valuation of health, and the enshrining of individual responsibility as the seemingly non-coercive means of intervention and control. This paradigm-challenging volume advances new lines of criticism of our dominant medical regime, even while proposing ways of bringing medical practice, bioethics, and public health more closely into line with their original goals. Precisely because of the centrality of the biomedical approach to our society, the contributors argue, challenging the reductionist model and its ever-widening effects is perhaps the best way to press for a much-needed renewal of our ethical and political discourse. Bibliography of Publications Introduction to Solid State Physics *World Scientific* This is an introductory book on solid state physics. It is a translation of a Hebrew version, written for the Open University in Israel. Aimed mainly for self-study, the book contains appendices with the necessary background, explains each calculation in detail and contains many solved problems. The bulk of the book discusses the basic concepts of periodic crystals, including lattice structures, radiation scattering off crystals, crystal bonding, vibrations of crystals, and electronic properties. On the other hand, the book also presents brief reviews of advanced topics, e.g. quasicrystals, soft condensed matter, mesoscopic physics and the quantum Hall effect. There are also many specific examples drawn from modern research topics, e.g. perovskite oxides relevant for high temperature superconductivity, graphene, electrons in low dimensions and more. Nanomaterials in Architecture and Art Conservation *CRC Press* The conservation and protection of buildings that constitute our cultural heritage are complex tasks calling for a comprehensive knowledge of the historical background of the buildings, as well as the construction technologies and materials used. Nanomaterials in Architecture and Art Conservation gives a comprehensive overview of the state of the art of using nanomaterials in conservation sciences, mainly for stone, mortar and plaster strengthening, but also for the consolidation of wall paintings. The book compiles and details deterioration mechanisms of stone and historical mortars, as well as methods of characterising and testing consolidation effects. The non- or semi-destructive characterisation methods that will be presented allow additional measurements to characterise objects before and after any interventions. Besides, general aspects of inorganic consolidants are targeted. The focus, in particular, is the application of nanolime as a new consolidation agent. Basic characteristics and application advices as well as beneficial combinations with other consolidation agents, such as silicic acid esters, are emphasised. What makes this book so special is the large number of practical applications described from the viewpoint of different restorers, offering a direct inside view of the procedure for the conservation of historical monuments. Restorers dealing with stone, mortar and plaster conservation; artists; advanced undergraduate- and graduate-level students of conservation science, art and nanotechnology; offices for the protection of monuments and heritage agencies; and researchers in materials science, conservation, nanotechnology and chemistry, especially those with an interest in applied sciences, will find this book a great reference. Metrics What Counts in Global Health *Duke University Press* This volume's contributors evaluate the accomplishments, limits, and consequences of using quantitative metrics in global health. Whether analyzing maternal mortality rates, the relationships between political goals and metrics data, or the links between health outcomes and a program's fiscal support, the contributors question the ability of metrics to solve global health problems. They capture a moment when global health scholars and practitioners must evaluate the potential effectiveness and pitfalls of different metrics—even as they remain elusive and problematic. Contributors. Vincanne Adams, Susan Erikson, Molly Hales, Pierre Minn, Adeola Oni-Orisan, Carolyn Smith-Morris, Marlee Tichenor, Lily Walkover, Claire L. Wendland Oxygen Transport to Tissue XXXVII *Springer* This book contains the refereed contributions from the 42nd annual meeting of ISOTT. The annual meetings of ISOTT bring together scientists from various fields (medicine, physiology, mathematics, biology, chemistry, physics, engineering, etc.) in a unique international forum. ISOTT conferences are a place where an atmosphere of interaction is created, where many questions are asked after each presentation and lively discussions occur at a high scientific level. This vivid interaction is the main motivation for members to participate and gain new ideas and knowledge in the broad field of oxygen transport to tissue. The papers in this volume summarize some of the outstanding contributions from the 42nd annual meeting, which included sessions on: cellular hypoxia and mitochondria; blood substitutes and oxygen therapeutics; oxygen transport in critical care medicine and disease; muscle oxygenation; multi modal imaging techniques; brain oxygenation and imaging; optical techniques for oxygen measurement; microcirculation; mathematical modelling of oxygen transport; and cancer metabolism. The New Paradigm in Architecture The Language of Post-modernism *Yale University Press* This book explores the broad issue of Postmodernism and tells the story of the movement that has changed the face of architecture over the last forty years. In this completely rewritten edition of his seminal work, Charles Jencks brings the history of architecture up to date and shows how demands for a new and complex architecture, aided by computer design, have led to more convivial, sensuous, and articulate buildings around the world. Mathematical Methods in Science and Engineering *John Wiley & Sons* A Practical, Interdisciplinary Guide to Advanced Mathematical Methods for Scientists and Engineers *Mathematical Methods in Science and Engineering, Second Edition*, provides students and scientists with a detailed mathematical reference for advanced analysis and computational methodologies. Making complex tools accessible, this invaluable resource is designed for both the classroom and the practitioners; the modular format allows flexibility of coverage, while the text itself is formatted to provide essential information without detailed study. Highly practical discussion focuses on the "how-to" aspect of each topic presented, yet provides enough theory to reinforce central processes and mechanisms. Recent growing interest in interdisciplinary studies has brought scientists together from physics, chemistry, biology, economy, and finance to expand advanced mathematical methods beyond theoretical physics. This book is written with this multi-disciplinary group in mind, emphasizing practical solutions for diverse applications and the development of a new interdisciplinary science. Revised and expanded for increased utility, this new Second Edition: Includes over 60 new sections and subsections more useful to a multidisciplinary audience Contains new examples, new figures, new problems, and more fluid arguments Presents a detailed discussion on the most frequently encountered special functions in science and engineering Provides a systematic treatment of special functions in terms of the Sturm-Liouville theory Approaches second-order differential equations of physics and engineering from the factorization perspective Includes extensive discussion of coordinate transformations and tensors, complex analysis, fractional calculus, integral transforms, Green's functions, path integrals, and more Extensively reworked to provide increased utility to a broader audience, this book provides a self-contained three-semester course for curriculum, self-study, or reference. As more scientific disciplines begin to lean more heavily on advanced mathematical analysis, this resource will prove to be an invaluable addition to any bookshelf. Lightwave Communications *Cambridge University Press* This pioneering, course-tested text is the first to combine communications theory with the physics of optical communications. Comprehensive and rigorous, it brings together an in-depth treatment of the physical characteristics of the guided lightwave channel with the study of modern methods of algorithmic-based communication in time and space. The many different levels at which a lightwave communication signal can be described are integrated to provide a unified explanation of how a commonplace bit stream is transformed into a physical lightwave, how that lightwave travels through an optical fiber, and how it is then transformed back into the bit stream. Background fundamentals such as linear systems and electromagnetics are explained in relation to modern topics such as channel models, encoding, modulation and interference, and end-of-chapter problems are provided throughout. This is an essential text for students taking courses on optical communications, as well as researchers and professionals working in the area. Cosmic Messengers The Limits of Astronomy in an Unruly Universe *Cambridge University Press* Martin Harwit, author of the influential book *Cosmic Discovery*, asks key questions about the scope of observational astronomy. Humans have long sought to understand the world we inhabit. Recent realization of how our unruly Universe distorts information before it ever reaches us reveals distinct limits on how well we will ultimately understand the Cosmos. Even the best instruments we might conceive will inevitably be thwarted by ever more complex distortions and will never untangle the data completely. Observational astronomy, and the cost of pursuing it, will then have reached an inherent end. Only some totally different lines of approach, as yet unknown and potentially far more costly, might then need to emerge if we wish to learn more. This accessible book is written for all astronomers, astrophysicists, and those curious about how well we will ever understand the Universe and the potential costs of pushing those limits. Nubians in Egypt: Peaceful People *Austin : University of Texas Press* Photos by George Gerster; notes on Nubian architecture and architectural drawings by Horst Jaritz; Forward by Laila Shukry El Hamamsy; Captions by Hamza El din and Elizabeth Warnock Fernea; Additional Photos by Abdul Fattah Eid. Gravity! The Quest for Gravitational Waves *Oxford University Press* This delightfully written book takes the reader on a journey through the history of gravity, from the 16th century experiments of Galileo, through the remarkable insights of Einstein, to the recent observations of gravitational radiation from cataclysmic cosmic events: the merger of two black holes. The history of the Universe itself, from the Big Bang to the present, is traced in a way that delineates the essential role played by gravity in its evolution. The reader is afforded the option of following these stories with varying degrees of attention to technical detail. AT whatever level suits ones taste, a fascinating trip is in store. MARY Gaillard, Professor Emeritus, Physics Department, University of California, Berkeley Functional Nanostructured Membranes *CRC Press* A membrane is considered the heart of every separation process because it is developed as a nanostructured/nanofunctionalized thin barrier that controls the exchange between two phases, not only by external forces and under the effect of fluid properties, but also through the intrinsic characteristics of the membrane material itself. This book compiles cutting-edge research in membrane science, nanomaterials, and nanotechnologies, mainly from interdisciplinary research groups at the Institute on Membrane Technology, National Research Council (ITM-CNR), Italy, working on membrane design, membrane

process engineering, and selected materials and practices for enhanced transport mass, charge, and energy. It covers topics on the design of new nanostructured membranes with improved properties, together with the identification of efficient transport-property relationships. It shares and strengthens the knowledge of making membrane technology a much more powerful and eco-friendly route, enabling one to provide prospective solutions and benefits for numerous fields of applications where traditional separation technologies suffer from many deficiencies. It is a great reference for researchers and investigators; graduate, PhD, and postgraduate students; and end users interested in membrane science and technology, nanomaterials, eco-friendly separation, chemistry, biology, and process engineering. *The Philosophy of Sustainable Design The Future of Architecture* *Ecotone Publishing* The author outlines the major ideas and issues that have emerged in the growing movement of green architecture and sustainable design over the last thirty years. The book asks individuals to understand how the philosophy of sustainable design can affect their own work. *Classical Field Theory* *Cambridge University Press* Classical field theory, which concerns the generation and interaction of fields, is a logical precursor to quantum field theory, and can be used to describe phenomena such as gravity and electromagnetism. Written for advanced undergraduates, and appropriate for graduate level classes, this book provides a comprehensive introduction to field theories, with a focus on their relativistic structural elements. Such structural notions enable a deeper understanding of Maxwell's equations, which lie at the heart of electromagnetism, and can also be applied to modern variants such as Chern-Simons and Born-Infeld. The structure of field theories and their physical predictions are illustrated with compelling examples, making this book perfect as a text in a dedicated field theory course, for self-study, or as a reference for those interested in classical field theory, advanced electromagnetism, or general relativity. *Demonstrating a modern approach to model building, this text is also ideal for students of theoretical physics.* *Art as Healing* *Coverture Limited* *Handbook of Missing Data Methodology* *CRC Press* Missing data affect nearly every discipline by complicating the statistical analysis of collected data. But since the 1990s, there have been important developments in the statistical methodology for handling missing data. Written by renowned statisticians in this area, *Handbook of Missing Data Methodology* presents many methodological advances and the latest applications of missing data methods in empirical research. Divided into six parts, the handbook begins by establishing notation and terminology. It reviews the general taxonomy of missing data mechanisms and their implications for analysis and offers a historical perspective on early methods for handling missing data. The following three parts cover various inference paradigms when data are missing, including likelihood and Bayesian methods; semi-parametric methods, with particular emphasis on inverse probability weighting; and multiple imputation methods. The next part of the book focuses on a range of approaches that assess the sensitivity of inferences to alternative, routinely non-verifiable assumptions about the missing data process. The final part discusses special topics, such as missing data in clinical trials and sample surveys as well as approaches to model diagnostics in the missing data setting. In each part, an introduction provides useful background material and an overview to set the stage for subsequent chapters. Covering both established and emerging methodologies for missing data, this book sets the scene for future research. It provides the framework for readers to delve into research and practical applications of missing data methods. *Green Architecture* *Taschen America Llc* **ARCHITECTURAL STRUCTURE & DESIGN.** When is a house ecological? Does the use of natural materials and solar cells on the roof make a building an example of "green" architecture? Perhaps even Antoni Gaudi and Frank Lloyd Wright designed "greener" buildings than most contemporary architects, whose low-energy houses scarcely differ outwardly from traditional ones. James Wines puts up the various - and often irreconcilable - concepts of environmentally-friendly architecture for discussion, making a case for an architecture that not only focuses on technological solutions, but also tries to reconcile man and nature in its formal idiom. Among the examples of contemporary ecological architecture presented are works by Emilio Ambasz, Gustav Peichl, Arthur Quarmby, Jean Nouvel, Sim Van der Ryn, Jourda and Perraudin, Log ID, James Cutler, Stanley Saitowitz, Francois Roche, Nigel Coates and Michael Sorkin. *Handheld Usability* *John Wiley & Sons* Offering an overview of usability, testing, and information architecture for EPOC, WAP, PDAs, handhelds, and handsets, this how-to guide dives into the details about medium-specific issues and design strategies. * Discusses designing for the current wireless platforms: cellular phones and PDAs * Covers both stand alone as well as Web-based application design * Contains a case study of a usability test *Researching Corporations and Global Health Governance An Interdisciplinary Guide* *Rowman & Littlefield* A practical guide on how to conduct research on the impact of corporations on global health and global health governance, which draws on the theoretical and methodological insights of a range of scholarly disciplines. *Don't Be Afraid of Physics Quantum Mechanics, Relativity and Cosmology for Everyone* *Springer Nature* With the aid of entertaining short stories, anecdotes, lucid explanations and straight-forward figures, this book challenges the perception that the world of physics is inaccessible to the non-expert. Beginning with Neanderthal man, it traces the evolution of human reason and understanding from paradoxes and optical illusions to gravitational waves, black holes and dark energy. On the way, it provides insights into the mind-boggling advances at the frontiers of physics and cosmology. Unsolved problems and contradictions are highlighted, and contentious issues in modern physics are discussed in a non-dogmatic way in a language comprehensible to the non-scientist. It has something for everyone. *An Introduction to Cold and Ultracold Chemistry Atoms, Molecules, Ions and Rydbergs* *Springer Nature* This book provides advanced undergraduate and graduate students with an overview of the fundamentals of cold and ultracold chemistry. Beginning with definitions of what cold and ultracold temperatures mean in chemistry, the book then takes the student through the essentials of scattering theory (classical and quantum mechanical), light-matter interaction, reaction dynamics and Rydberg physics. The author aims to show the reader the richness of the topic while motivating students to understand the fundamentals of these intriguing reactions and underlying connecting relationships. Including material which was previously only found in specialized review articles, this book provides students working in the fields of ultracold gases, chemical physics and physical chemistry with the tools they need to immerse themselves in the realm of cold and ultracold chemistry. This book opens up the exciting chemical laws which govern chemistry at low temperatures to the next generation of researchers. *Cosmic Discovery The Search, Scope, and Heritage of Astronomy* *Cambridge University Press* Originally published: New York: Basic Books, 1981. *Routledge Handbook of Food and Nutrition Security* *Routledge* The concept of food and nutrition security has evolved and risen to the top of the international policy agenda over the last decade. Yet it is a complex and multi-faceted issue, requiring a broad and interdisciplinary perspective for full understanding. This Handbook represents the most comprehensive compilation of our current knowledge of food and nutrition security from a global perspective. It is organized to reflect the wide scope of the contents, its four sections corresponding to the accepted current definitional frameworks prevailing in the work of multilateral agencies and mainstream scholarship. The first section addresses the struggles and progression of ideas and debates about the subject in recent years. The other sections focus on three key themes: how food has been, is and should be made available, including by improvements in agricultural productivity; the ways in which politico-economic and social arenas have shaped access to food; and the effects of food and nutrition systems in addressing human health, known as food utilisation. Overall, the volume synthesizes a vast field of information drawn from agriculture, soil science, climatology, economics, sociology, human and physical geography, the nutrition and health sciences, environmental science and development studies. *Cairo of the Mamluks A History of Architecture and Its Culture* *I.B. Tauris* The Arab philosopher Ibn Khaldun described Cairo under the Mamluks as ""a city beyond imagination"". The Mamluk sultans originated as a slave-based caste rose to rule in the mid-13th century. Accordingly, they designed their capital to be the heart of the Muslim world. It became the focus of their enormous patronage of art and architecture, the stage for their ceremonial rituals, and a memorial to their achievements. This history of Mamluk architecture spans three centuries and examines the monuments of the Mamluks in their social, political and urban context, during the period of their rule (1250 - 1517). The book displays the multiple facets of Mamluk patronage, and also provides a succinct discussion of the sixty key monuments built in Cairo by the Mamluk sultans. The unique strength of Doris Abouseif's work lies in its scholarly yet engaging presentation of original material, diligently researched in the waqf (Islamic endowments) archives including architectural plans and personal records. A richly illustrated volume with colour photographs, plans and isometric drawings, it will be an essential reference work for scholars and students of the art and architecture of the Islamic world as well as art historians and historians of late medieval Islamic history. Cairo of the Mamluks received a Commendation from the 2008 BRISMES book awards. *Introduction to Galaxy Formation and Evolution From Primordial Gas to Present-Day Galaxies* A comprehensive examination of nearly fourteen billion years of galaxy formation and evolution, from primordial gas to present-day galaxies.