

## Quantum Con Laboratorio Corso Di Fisica Per Il Primo Biennio Dei Licei Scientifici E Licei Scientifici Delle Scienze Applicate

A breakthrough in scientific, metaphysical and philosophical knowledge, this book - in light of the hypothesis that matter and consciousness are strictly connected into a single unity - presents an entirely new theory about the way in which information is non-locally propagated through an intelligent Universe and the way in which matter is created by consciousness. Quantum entanglement, synchronicity, multidimensionality, extra-terrestrial intelligence, and the true nature of what we call "spirituality" are revisited within a completely revolutionary framework mainly based on new physics, whose goal is to make people think about the world, themselves, the Universe and the true meaning of life, and to trigger scientists of the new millennium towards a more complete understanding of the reality in which we are all immersed. Massimo Teodorani, Ph.D., is a well-known northern Italian physical scientist and science writer and lecturer, who has carried out professional research in several fields of stellar astrophysics, and with a particular interest for the scientific search for extraterrestrial intelligence and the rigorous study of atmospheric anomalies occurring in Nature."

This advanced undergraduate-level text presents the quantum theory in terms of qualitative and imaginative concepts, followed by specific applications worked out in mathematical detail.

With examples and clear explanation throughout, this step-by-step approach makes quantum theory of plasmons accessible to readers without specialized training in theory. Jacak uses original research results to offer a fully analytical theory formulation suitable for further development and applications. The theory is focused on the Random Phase Approximation description of plasmons in metallic nano-structures, previously defined for bulk metal. Particular attention is paid to large damping of plasmons in nanostructures including electron scattering and Lorentz friction losses, quantum description of plasmon photovoltaic effect is presented and there is in-depth analysis of plasmon-polariton kinetics in metallic nano-chains. Suitable for students in the field of plasmonics, opto-electronics and photonics, and for researchers active in the field of photo-voltaics, opto-electronics, nano-plasmonics and nano-photonics. Also of help to researchers in soft plasmonics with applications to electro-signalling in neurons.

The scientific personalities of Luigi Cremona, Eugenio Beltrami, Salvatore Pincherle, Federigo Enriques, Beppo Levi, Giuseppe Vitali, Beniamino Segre and of several other mathematicians who worked in Bologna in the century 1861–1960 are examined by different authors, in some cases providing different view points. Most contributions in the volume are historical; they are reproductions of original documents or studies on an original work and its impact on later research. The achievements of other mathematicians are investigated for their present-day importance.

Imagine mathematics, imagine with the help of mathematics, imagine new worlds, new geometries, new forms. Imagine building mathematical models that make it possible to manage our world better, imagine combining music, art, poetry, literature, architecture and cinema with mathematics. Imagine the unpredictable and sometimes counterintuitive applications of mathematics in all areas of human endeavour. Imagination and mathematics, imagination and culture, culture and mathematics. This sixth volume in the series begins with a homage to the architect Zaha Hadid, who died on March 31st, 2016, a few weeks before the opening of a large exhibition of her works in Palazzo Franchetti in Venice, where all the Mathematics and Culture conferences have taken place in the last years. A large section of the

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book is dedicated to literature, narrative and mathematics including a contribution from Simon Singh. It discusses the role of media in mathematics, including museums of science, journals and movies. Mathematics and applications, including blood circulation and preventing crimes using earthquakes, is also addressed, while a section on mathematics and art examines the role of math in design. A large selection presents photos of mathematicians and mathematical objects by Vincent Moncorge. Discussing all topics in a way that is rigorous but captivating, detailed but full of evocations, it offers an all-embracing look at the world of mathematics and culture.

Learning quantum field theory doesn't have to be hard What if there were a book that allowed you to see the whole picture and not just tiny parts of it? Thoughts like this are the reason that No-Nonsense Quantum Field Theory now exists. What will you learn from this book? Get to know all fundamental concepts — Grasp what a quantum field is, why we use propagators to describe its behavior, and how Feynman diagrams help us to make sense of field interactions. Learn to describe quantum field theory mathematically — Understand the meaning and origin of the most important equations: the Klein-Gordon equation, the Dirac equation, the Proca equation, the Maxwell equations, and the canonical commutation/anticommutation relations. Master important quantum field theory interactions — Read fully annotated, step-by-step calculations and understand the general algorithm we use to particle interactions. Get an understanding you can be proud of — Learn about advanced topics like renormalization and regularization, spontaneous symmetry breaking, the renormalization group equations, non-perturbative phenomena, and effective field models. No-Nonsense Quantum Field Theory is one the most student-friendly book on quantum field theory ever written. Here's why. First of all, it's nothing like a formal university lecture. Instead, it's like a casual conversation with a more experienced student. This also means that nothing is assumed to be "obvious" or "easy to see". Each chapter, each section, and each page focuses solely on the goal to help you understand. Nothing is introduced without a thorough motivation and it is always clear where each equation comes from. The book ruthlessly focuses on the fundamentals and makes sure you'll understand them in detail. The primary focus on the readers' needs is also visible in dozens of small features that you won't find in any other textbook In total, the book contains more than 100 illustrations that help you understand the most important concepts visually. In each chapter, you'll find fully annotated equations and calculations are done carefully step-by-step. This makes it much easier to understand what's going on. Whenever a concept is used that was already introduced previously there is a short sidenote that reminds you where it was first introduced and often recites the main points. In addition, there are summaries at the beginning of each chapter that make sure you won't get lost.

One of the most spectacular consequences of the description of the superfluid condensate in superfluid He or in superconductors as a single macroscopic quantum state is the quantization of circulation, resulting in quantized vortex lines. This book draws no distinction between superfluid He3 and He4 and superconductors. The reader will find the essential introductory chapters and the most recent theoretical and experimental progress in our understanding of the vortex state in both superconductors and superfluids, from lectures given by leading experts in the field, both experimentalists and theoreticians, who gathered in Cargèse for a NATO ASI. The peculiar features related to short coherence lengths, 2D geometry, high temperatures, disorder, and pinning are thoroughly discussed.

Quantum. Con laboratorio. Corso di fisica per il primo biennio dei Licei scientifici e Licei scientifici delle scienze applicate Il Nuovo cimento della Società italiana di fisica. A. Exploring Quantum Physics through Hands-on Projects John Wiley & Sons

Quantum physics allows us to understand the nature of the physical phenomena which govern the behavior of solids, semi-conductors, lasers, atoms, nuclei, subnuclear particles and light. In Quantum Physics, Le Bellac provides a thoroughly modern approach to this fundamental theory. Throughout the book, Le Bellac teaches the fundamentals of quantum physics using an original approach which relies

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primarily on an algebraic treatment and on the systematic use of symmetry principles. In addition to the standard topics such as one-dimensional potentials, angular momentum and scattering theory, the reader is introduced to more recent developments at an early stage. These include a detailed account of entangled states and their applications, the optical Bloch equations, the theory of laser cooling and of magneto-optical traps, vacuum Rabi oscillations and an introduction to open quantum systems. This is a textbook for a modern course on quantum physics, written for advanced undergraduate and graduate students.

With contributions by leading international experts, this book presents a detailed compilation of a new and very active field. It is the first book devoted to the covalent coupling of molecular precursors on surfaces that allows the preparation of 0D, 1D and 2D molecules that cannot be synthesized in solution. This book is aimed at students and researchers interested in nanochemistry and molecular devices and it gives the reader a pedagogical up-to-date vision of the most recent developments. The editor ensures a multidisciplinary approach involving molecular chemistry, surface sciences, surface spectroscopies, theory, scanning tunneling and non-contact atomic force microscopies.

Nanocrystals research has been an area of significant interest lately, due to the wide variety of potential applications in semiconductor, optical and biomedical fields. This book consists of a collection of research work on nanocrystals processing and characterization of their structural, optical, electronic, magnetic and mechanical properties. Various methods for nanocrystals synthesis are discussed in the book. Size-dependent properties such as quantum confinement, superparamagnetism have been observed in semiconductor and magnetic nanoparticles. Nanocrystals incorporated into different material systems have proven to possess improved properties. A review of the exciting outcomes nanoparticles study has provided indicates further accomplishments in the near future.

This book distills the knowledge gained from research into atoms in molecules over the last 10 years into a unique, handy reference. Throughout, the authors address a wide audience, such that this volume may equally be used as a textbook without compromising its research-oriented character. Clearly structured, the text begins with advances in theory before moving on to theoretical studies of chemical bonding and reactivity. There follow separate sections on solid state and surfaces as well as experimental electron densities, before finishing with applications in biological sciences and drug-design. The result is a must-have for physicochemists, chemists, physicists, spectroscopists and materials scientists.

This book is a collection of multidisciplinary papers presented at the Department of Physics of Milan University's congress on 28 and 29 June 2017, which was also intended as a kick-off meeting for the design of a novel science campus at the Expo site in Milan. The congress presented a snapshot of the department's research to the academic community, the media, policymakers and authorities as well as the public at large, and also provided an opportunity to strengthen interdisciplinary collaborations between the members of the department and other communities. This book is a valuable resource for scientists looking for synergetic projects, policymakers wanting to grasp scientists' points of view and for prospective graduate students seeking expanding areas of research.

Throughout human history, thoughts, values and behaviours have been coloured by language and the prevailing view of the universe. With the advent of Quantum Mechanics, relativity, non-Euclidean geometries, non-Aristotelian logic and General Semantics, the scientific view of the world has changed dramatically from just a few decades ago. Nonetheless, human thinking is still deeply rooted in the cosmology of the middle ages. This is the book to change your way of perceiving yourself -- and the universe. Some say it's materialistic, others call it scientific and still others insist it's mystical. It is all of these -- and none. The book for the 21st Century, complete with exercises. Picks up where "Prometheus Rising" left off. Some say it's materialistic, others call it scientific and still others insist it's mystical. It is all of these -- and none.

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Fully updated and matched to the Cambridge syllabus, this stretching Student Book is trusted by teachers around the world to support advanced understanding and achievement at IGCSE. The popular, stretching approach will help students to reach their full potential. Written by an experienced author, Stephen Pople, this updated edition is full of engaging content with up-to-date examples to cover all aspects of the Cambridge syllabus. The step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical activities. Extension material will stretch the highest ability students and prepare them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. Each book is accompanied by free online access to a wealth of extra support for students including practice exam questions, revision checklists and advice on how to prepare for an examination.

A wild and unexpected journey through culture, science, philosophy and religion to better understand the mercurial genius of William Blake. Poet, artist, and visionary, William Blake is an archetypal misunderstood genius. His life passed without recognition and he worked without reward, often mocked, dismissed and misinterpreted. Yet from his ignoble end in a pauper's grave, Blake now occupies a unique position as an artist who unites and attracts people from all corners of society—a rare inclusive symbol of human identity. Blake famously experienced visions, and it is these that shaped his attitude to politics, sex, religion, society, and art. Thanks to the work of neuroscientists and psychologists, we are now in a better position to understand what was happening inside that remarkable mind and gain a deeper appreciation of his brilliance. His timeless work, we will find, has never been more relevant. In *William Blake vs the World* we return to a world of riots, revolutions, and radicals; discuss movements from the Levellers of the sixteenth century to the psychedelic counterculture of the 1960s; and explore the latest discoveries in neurobiology, quantum physics, and comparative religion. Taking the reader on a wild adventure into unfamiliar territory, John Higgs places the bewildering eccentricities of a most singular artist into fascinating context. And although the journey begins with us trying to understand him, we will ultimately discover that it is Blake who helps us to understand ourselves.

High-efficiency micropropagation, with relatively low labour costs, has been demonstrated in this unique book detailing liquid media systems for plant tissue culture. World authorities (e.g. von Arnold, Curtis, Takayama, Ziv) contribute seminal papers together with papers from researchers across Europe that are members of the EU COST Action 843 "Advanced micropropagation systems". First-hand practical applications are detailed for crops – including ornamentals and trees – using a wide range of techniques, from thin-film temporary immersion systems to more traditional aerated bioreactors with many types of explant – shoots to somatic embryos. The accounts are realistic, balanced and provide a contemporary account of this important aspect of mass propagation. This book is essential reading for all those in commercial micropropagation labs, as well as researchers worldwide who are keen to improve propagation techniques and lower economic costs of production. Undergraduate and postgraduate students in the applied plant sciences and horticulture will find the book an enlightened treatise.

Il Laboratorio di diritto amministrativo nasce come iniziativa di incontro e scambio tra giovani studiosi della materia per discutere delle ricerche in corso di svolgimento. L'idea, nata dall'esperienza di quanto avviene in altre realtà, soprattutto al di fuori del nostro Paese, si fonda sulla necessità di collocare, nell'ambito di un percorso di ricerca sovente caratterizzato dalla 'solitudine' di chi lo intraprende, un momento di confronto dialettico all'interno della comunità scientifica; un momento in cui, cioè, la comunità stessa metta a disposizione del singolo le proprie eterogenee esperienze e conoscenze, di modo che questi possa conseguire un più proficuo sviluppo del suo lavoro, nell'ottica di un complessivo arricchimento reciproco. Gli esiti di tali ricerche, per l'anno 2019, sono oggetto di pubblicazione del presente volume, insieme agli ulteriori contributi ad essi correlati e ispirati dall'attività del Laboratorio.



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This book covers the basic guidelines of Vittorio Benussi's research during the period at Graz and at Padua. It does so in the light of a thorough study of his Nachlass. The book re-evaluates Benussi's work as a historical piece, and shows how his work is still relevant today, especially in the areas of cognitive psychology and cognitive science. The volume deals with this original and ingenious - though largely ignored - scholar and discusses his work as a leading experimental psychologist. Benussi's contributions as discussed in this book were particularly relevant in the fields of visual and tactile perception, time perception, forensic psychology, hypnosis and suggestion, unconscious, and emotions. His classical papers are impressive in their originality, energy, range of approaches, experimental skill, the wealth of findings, and the quality of theoretical discussions. This book demonstrates that Benussi was ahead of his time and that his themes, experiments and research programmes are highly relevant to contemporary cognitive psychology.

Responding to an explosion of new mathematical and computational models used in the fields of cognitive science, this book provides simple tutorials concerning the development and testing of such models. The authors focus on a few key models, with a primary goal of equipping readers with the fundamental principles, methods, and tools necessary for evaluating and testing any type of model encountered in the field of cognitive science.

Many bottom-up and top-down techniques for nanomaterial and nanostructure generation have enabled the development of applications in nanoelectronics and nanophotonics. Handbook of Nanophysics: Nanoelectronics and Nanophotonics explores important recent applications of nanophysics in the areas of electronics and photonics. Each peer-reviewed chapter contains a broad-based introduction and enhances understanding of the state-of-the-art scientific content through fundamental equations and illustrations, some in color. This volume discusses how different nanomaterials, such as quantum dots and nanotubes, are used in quantum computing, capacitors, and transistors. Leading international experts review the potential of the novel patterning techniques in molecular electronics as well as nanolithography approaches for producing semiconductor circuits. They also describe optical properties of nanostructures, nanowires, nanorods, and clusters, including cathodoluminescence, photoluminescence, and polarization-sensitivity. In addition, the book covers nanophotonic devices and nanolasers. Nanophysics brings together multiple disciplines to determine the structural, electronic, optical, and thermal behavior of nanomaterials; electrical and thermal conductivity; the forces between nanoscale objects; and the transition between classical and quantum behavior. Facilitating communication across many disciplines, this landmark publication encourages scientists with disparate interests to collaborate on interdisciplinary projects and incorporate the theory and methodology of other areas into their work.

L'Opera, divisa in tre tomi, fornisce una trattazione completa in materia di prova e quantum nel risarcimento del danno non patrimoniale. Il volume si sofferma sulla nozione di risarcimento in generale, e, in particolare, analizza l'applicazione pratica dell'istituto nei vari ambiti, quali il diritto della persona, famiglia, medicina, diritti reali, ambiente, obbligazioni e contratti, lavoro, società, amministrazione della giustizia, cultura e tempo libero. Si evidenzia l'analisi di figure nuove che danno luogo a responsabilità per danni quali lo stalking, la pedopornografia, diritti del morente, nascita indesiderata L'opera, aggiornata alla giurisprudenza di merito e di legittimità del 2013, è corredata da una ricca bibliografia, nonché da dettagliati indici sommario ed analitico e dalla spiegazione di numerosi casi pratici. PIANO DELL'OPERA TOMO PRIMO FIGURE GENERALI DEL DANNO Danni patrimoniali Danno emergente Lucro cessante Danni non patrimoniali Danno biologico Danno esistenziale Danno psichico PERSONA E DIRITTI Nome Il diritto all'immagine Privacy Reputazione personale Reputazione economica Reputazione professionale Discriminazioni Libertà religiosa I diritti del morente Suicidio NASCITA Nascita indesiderata: errori del medico e malformazioni Wrongful life Perdita del feto Sessualizzazione precoce Organismi geneticamente modificati Pedofilia

Pedopornografia FAMIGLIA Convenzioni e contratti matrimoniali Accordi interni fra conviventi Doveri morali fra coniugi Doveri economici fra coniugi Risarcimento del danno per infedeltà coniugale Casalinga Separazione e divorzio Uccisione del congiunto Invalidazione del congiunto MEDICINA Contratti sanitari Consenso informato Chirurgia estetica Diagnosi errata Responsabilità da infezioni nosocomiali Il danno da trasfusione Il danno da vaccinazione BENI, DIRITTI REALI, AMBIENTE Abitazione, casa Condominio Multiproprietà Immissioni acustiche – responsabilità an e quantum Inquinamento elettromagnetico TOMO SECONDO OBBLIGAZIONI E CONTRATTI Inadempimento Rivalutazione e interessi Simulazione Vendita Permuta Contratti di somministrazione Patronage Locazione Affitto Leasing Comodato Deposito Mutuo Appalto Mandato Mediazione La commissione. Principi Anticresi Contratti bancari Conto corrente bancario Contratti scolastici Contratti telematici Factoring Fideiussione Assicurazione Transazione LAVORO Licenziamento Dimissioni per giusta causa Mobbing Bossing Demansionamento e dequalificazione Disoccupato Infortuni sul lavoro Danno differenziale/complementare Inail TOMO TERZO IMPRESA, SOCIETÀ, MERCATO Banca e borsa Pubblicità Trust Diritto d'autore Finanziamento Fornitura Know-how Concorrenza sleale Boicottaggio in azienda Storno dei dipendenti GIUSTIZIA Lite temeraria e quantificazione del danno Denuncia infondata La ragionevole durata del processo Il risarcimento del danno da detenzione «inumana» Errori giudiziari Ingiusta detenzione ADR Arbitrato FIGURE DI RESPONSABILITA' CIVILE Circolazione stradale Stalking Violenze sessuali Il danno da fumo attivo Bullismo Protesto illegittimo Prodotti difettosi Seduzione con promessa di matrimonio CULTURA, TEMPO LIBERO Internet Uccisione dell'animale d'affezione Sport e responsabilità civile Vacanza rovinata

This landmark volume combines classic and revisionist essays to explore the historiography of Sardinia's exceptional transition from an island of the Byzantine empire to the rise of its own autonomous rulers, the iudikes, by the 1000s.

"A breakthrough diet book from New York Times bestselling author, PBS icon, and gut expert Brenda Watson, this will be the first weight loss program using the latest scientific information on digestive health and sustainable fitness. An easy, nutritious, and delicious diet"--

This volume is the proceedings of a workshop to discuss the recent work on complex systems in physics and biology, its epistemological and cultural implications, and its effect for the development of these two sciences. The workshop is geared towards physicists, biologists, and science historians.

This book contains the proceedings of the Sixth National Conference of the Italian Systems Society. The title, Towards a post-Bertalanffy Systemics, aims to underline the need for Systemics and Systems Science to generalize theoretically concepts related to complexity (the great enemy of Bertalanffy Systemics). Hopefully this goal should be achieved by working in an inter-disciplinary and trans-disciplinary fashion, using systemic concepts arising from various disciplines and from the original, or Bertalanffy Systemics, as well. The interdisciplinary nature of the original Systemics and its power of generalization were given, overall, by the fact that the problems and solutions of one discipline become problems and solutions for another. Today, the modeling and interpretation of multidisciplinary approaches and representations makes easier to recognize these interconnections. The context, however, has changed dramatically. Of course, the challenge is still to find theoretical generalizations and applications, even where we have a lot of specificities, but we know very little on how to combine them. We cannot, however, simply replace the old with the new, but we must introduce strategies to recognize, represent, model and act on new levels, combining multiple

representations, functions and emergence. In many disciplines this has been already done, and inevitably well, since targets and projects are well specified and oriented. The challenge is to do it for Systemics, with the vocations of cultural and theoretical generalization. Examples of new issues introduced by such theoretical disciplinary improvements, dealt with by many disciplines, include the study of mesoscopic or middle-way level, of multiple and dynamic coherence, of equivalence/non-equivalence, of fractality, of networks, of non-causality, of non-invasiveness, of non-prescribability, of non-separability, of quasi properties, of symmetry properties, of topological dynamics, as well as of quantum theories and concepts. The conference was devoted to identifying, discussing and understanding possible interrelationships of theoretical disciplinary improvements, recognized as having prospective fundamental roles for a new post-Bertalanffy Systemics. The latter should be able to deal with problems related to complexity in a generalized way. In this context the inter-disciplinarity should consist, for instance, in a disciplinary reformulation of problems, as from algebraic to geometrical, from military to political, from biological to chemical, while the trans-disciplinarity should be related to the study of such reformulations and their properties. The Italian Systems Society (AIRS) was founded in the 1996. The AIRS is a network of academicians, scientists, researchers and professionals involved in Systemics. A partial list of disciplines represented is: Architecture Biology Economics Education Engineering Mathematics Neurosciences Medicine Music Philosophy Psychology Physics. Previous conferences had as open lecturers professors Arecchi, Haken, Klir, and Kauffman. The proceedings have been published as: 1. Minati, G., (ed.), (1998), Proceedings of the first Italian Conference on Systemics, Apogeo Scientifica, Milan, Italy. 2. Minati, G., and Pessa, E., (eds.) (2002), Emergence in Complex Cognitive, Social and Biological Systems. Kluwer, New York. 3. Minati, G., Pessa, E., and Abram, M., (eds.), (2006), Systemics of Emergence: Research and Applications. Springer, New York. 4. Minati, G., Abram, M. and Pessa, E., (eds.), (2009), Processes of emergence of systems and systemic properties. Towards a general theory of emergence. World Scientific, Singapore. 5. Minati, G., Abram, M. and Pessa, E., (eds.), (2012), Methods, Models, simulations and approaches - towards a general theory of change. World Scientific, Singapore.

A cutting-edge guide to quantum trading Original and thought-provoking, Quantum Trading presents a compelling new way to look at technical analysis and will help you use the proven principles of modern physics to forecast financial markets. In it, author Fabio Oreste shows how both the theory of relativity and quantum physics is required to make sense of price behavior and forecast intermediate and long-term tops and bottoms. He relates his work to that of legendary trader W.D. Gann and reveals how Gann's somewhat esoteric theories are consistent with his applications of Einstein's theory of relativity and quantum theory to price behavior. Applies concepts from modern science to financial market forecasting Shows how to generate support/resistance areas and identify potential market turning points Addresses how non-linear approaches to trading can be used to both understand and forecast market prices While no trading approach is perfect, the techniques found within these pages have enabled the author to achieve a very attractive annual return since 2002. See what his insights can do for you.

Build an intuitive understanding of the principles behind quantum mechanics through practical construction and replication

of original experiments With easy-to-acquire, low-cost materials and basic knowledge of algebra and trigonometry, Exploring Quantum Physics through Hands-on Projects takes readers step by step through the process of re-creating scientific experiments that played an essential role in the creation and development of quantum mechanics. Presented in near chronological order—from discoveries of the early twentieth century to new material on entanglement—this book includes question- and experiment-filled chapters on: Light as a Wave Light as Particles Atoms and Radioactivity The Principle of Quantum Physics Wave/Particle Duality The Uncertainty Principle Schrödinger (and his Zombie Cat) Entanglement From simple measurements of Planck's constant to testing violations of Bell's inequalities using entangled photons, Exploring Quantum Physics through Hands-on Projects not only immerses readers in the process of quantum mechanics, it provides insight into the history of the field—how the theories and discoveries apply to our world not only today, but also tomorrow. By immersing readers in groundbreaking experiments that can be performed at home, school, or in the lab, this first-ever, hands-on book successfully demystifies the world of quantum physics for all who seek to explore it—from science enthusiasts and undergrad physics students to practicing physicists and engineers.

Problems after each chapter

Since the very beginnings of the digital humanities, Papyrology has been in the vanguard of the application of information technologies to its own scientific purposes, for both theoretical and practical reasons (the strong awareness towards the problems of human memory and the material ways of preserving it; the need to work with a multifarious and overwhelming amount of different data). After more than thirty years of development, we have now at our disposal the most advanced tools to make papyrological studies more and more effective, and even to create a new conception of "papyrology" and a new model of "edition" of the ancient documents. At this turning point, it is important to build an epistemological framework including all the different expressions of Digital Papyrology, to trace a historical sketch setting the background of the contemporary tools, and to provide a clear overview of the current theoretical and technological trends, so that all the possibilities currently available can be exploited following uniform pathways. The volume represents an innovative attempt to deal with such topics, usually relegated into very quick and general treatments within journal articles or papyrological handbooks.

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