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agnoleggio.it 15.2 Electron waves. In
1924, Louis de Broglie used
Einstein ' s equations to show that
electrons can act like waves, just as
photons can act like particles. 15.2.1
The wavelength of photons. The
wavelength of a photon is calculated
by combining Einstein ' s equation for

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In 1924, Louis de Broglie proposed a new speculative hypothesis that electrons and other particles of matter can behave like waves. Today, this idea is known as de Broglie ' s hypothesis of matter waves. In 1926, De Broglie ' s hypothesis, together with Bohr ' s early quantum theory, led to the development of a new theory of wave quantum mechanics to describe the physics of atoms and

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subatomic particles.

De Broglie ' s Matter Waves –
University Physics Volume 3

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Louis de Broglie - Wikipedia
Louis-Victor-Pierre-Raymond, 7e duc de Broglie was a French physicist who made groundbreaking contributions to quantum theory. In his 1924 PhD thesis he Solving the measurement problem: de Broglie-Bohm loses... 1 Feb 2008 A common attitude amongst those that take the de Broglie-Bohm interpretation ..Perhaps the most obvious — and the most principled — defence is ...

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De Broglie's phase wave and periodic phenomenon. De Broglie's thesis started from the hypothesis, " that to each portion of energy with a proper mass m_0 one may associate a periodic phenomenon of the frequency ν_0 , such that one finds: $h \nu_0 = m_0 c^2$. The frequency ν_0 is to be measured, of course, in the rest frame of the energy packet ...

Matter wave - Wikipedia

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de Broglie equation states that a matter can act as waves much like light and radiation which also behave as waves and particles. The equation further explains that a beam of electrons can also be diffracted just like a beam of light. In essence, the de Broglie equation helps us understand the idea of matter having a wavelength.

de Broglie Equation - Derivation, de
Broglie Wavelength ...

Abstract: Introductory course on quantum and atomic physics including optics and statistical physics. Objective: A basic introduction to quantum and atomic

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physics, including basics of optics and equilibrium statistical physics.

Course Catalogue - ETH Z

When considering de Broglie wave phenomena of larger and more complex objects than atoms, fullerenes come to mind as suitable candidates. After their discovery⁹ and the subsequent invention of efficient mass-production methods¹⁰, they became easily available. In our experiment (see Fig. 1) we use commercial, 99.5% pure, C

letters to nature

Wave-particle duality of C molecules - ETH Z

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De Broglie waves account for the appearance of subatomic particles at conventionally unexpected sites because their waves penetrate barriers much as sound passes through walls. Thus a heavy atomic nucleus occasionally can eject a piece of itself in a process called alpha decay. The piece of nucleus (alpha particle) has insufficient energy as a particle to overcome the force barrier surrounding the nucleus; but as a

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wave it can leak through the barrier—that is, it has a finite probability ...

De Broglie wave | physics | Britannica
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Thermal and Rheological
Measurement Techniques for

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Nanomaterials Characterization, Second Edition covers thermal and rheological measurement techniques, including their principle working methods, sample preparation and interpretation of results. This important reference is an ideal source for materials scientists and industrial engineers who are working with nanomaterials and need to know how to determine their properties and behaviors. Outlines key characterization techniques to determine the thermal and rheological behavior of different nanomaterials Explains how the thermal and rheological behavior of nanomaterials affect their usage Provides a method-orientated approach that explains how to successfully use each technique

History of Particle Theory fills an

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important gap existing in the literature by discussing the impressive progress in understanding the elementary particles out of which all everyday objects are made. Most of this progress has happened in the last seventy years after the theory of quantum electrodynamics (QED) was perfected as an extremely accurate description of electromagnetic interactions. This astonishing sequence of discoveries was made hand in hand between theory and experiment. This book concentrates only on theory where giant steps were made by a series of exceptionally creative physicists, and this is portrayed as an essential part of the broader spectrum of human knowledge and culture, which is constantly being similarly extended by the creative individuals such as the

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two mentioned in the subtitle, Between Darwin and Shakespeare, who both significantly changed Western Civilization by ideas in Biology and in English Literature respectively. In the last forty years, the standard model has been confirmed again and again as the correct description of elementary particles up to energies of a thousand times the proton mass. In the discussion of particle theory and theoretical physics in general, the book starts from well over two thousand years ago, going back to the ancient Greeks such as Democritus and Archimedes, until the 17th century, when the extraordinary intellect of Newton changed everything by demonstrating that not only objects in the laboratory but also heavenly bodies are governed by mathematical equations. There

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followed what can be called Darwinian evolution in theoretical physics, survival of the fittest theories, by loose analogy with the origin of biological species. The present standard model of particle theory surely cannot be the final word because it contains far too many free parameters. The book contains a penultimate chapter discussing a number of such open problems which exist in particle theory. There is then a closing chapter, not related to the rest of the book, providing a series of quotations written in the 16th and 17th centuries by Shakespeare and here applied to particle theory. The inclusion of this is based on our premise that particle theory is just one out of several opportunities for exceptional human creativity.

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In this modern and distinctive textbook, Helliwell and Sahakian present classical mechanics as a thriving and contemporary field with strong connections to cutting-edge research topics in physics. Each part of the book concludes with a capstone chapter describing various key topics in quantum mechanics, general relativity, and other areas of modern physics, clearly demonstrating how they relate to advanced classical mechanics, and enabling students to appreciate the central importance of classical mechanics within contemporary fields of research. Numerous and detailed examples are interleaved with theoretical content, illustrating abstract concepts more concretely. Extensive problem sets at the end of each chapter further reinforce students' understanding of

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key concepts, and provide opportunities for assessment or self-testing. A detailed online solutions manual and lecture slides accompany the text for instructors. Often a flexible approach is required when teaching advanced classical mechanics, and, to facilitate this, the authors have outlined several paths instructors and students can follow through the book, depending on background knowledge and the length of their course.

This book presents a comprehensive mathematical study of the operators behind the Born–Jordan quantization scheme. The Schrödinger and Heisenberg pictures of quantum mechanics are equivalent only if the Born–Jordan scheme is used. Thus, Born–Jordan quantization provides

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the only physically consistent quantization scheme, as opposed to the Weyl quantization commonly used by physicists. In this book we develop Born–Jordan quantization from an operator-theoretical point of view, and analyze in depth the conceptual differences between the two schemes. We discuss various physically motivated approaches, in particular the Feynman-integral point of view. One important and intriguing feature of Born-Jordan quantization is that it is not one-to-one: there are infinitely many classical observables whose quantization is zero.

A study of one of the fundamental concept of quantum physics examines the strange correlation between two

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separated particles, entitled "entanglement" by physicist John Bell, drawing on the work of leading physicists to explain the phenomenon.

This book shines bright light into the dim recesses of quantum theory, where the mysteries of entanglement, nonlocality, and wave collapse have motivated some to conjure up multiple universes, and others to adopt a "shut up and calculate" mentality. After an extensive and accessible introduction to quantum mechanics and its history, the author turns attention to his transactional model. Using a quantum handshake between normal and time-reversed waves, this model provides a clear visual picture explaining the baffling experimental results that flow daily from the quantum physics

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laboratories of the world. To demonstrate its powerful simplicity, the transactional model is applied to a collection of counter-intuitive experiments and conceptual problems.

This invaluable book provides a balanced and integrated introduction to the quantum world of atoms and molecules. The underlying basis of quantum mechanics is carefully developed, with respect for the historical tradition and from a molecular angle. The fundamental concepts in the theory of atomic and molecular structure are thoroughly discussed, as are the central techniques needed in quantum-chemical applications. Special attention is paid to exposing and clarifying the common ground of

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Hartree-Fock theory and density-functional theory. Throughout the text, the discussion is pedagogically obliging and aims at simplicity and mathematical clarity, while avoiding the use of advanced mathematics. End-of-chapter problems supplement the main text.

Looks at the mysteries, scientific discoveries, and benefits of the chemical element hydrogen.

An introduction to the fascinating subject of quantum mechanics. Almost entirely algebra-based, this book is accessible to those with only a high school background in physics and mathematics. In addition to the foundations of quantum mechanics, it also provides an introduction to the fields of quantum communication and

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quantum computing.

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