

## [MOBI] Electron A Centenary Volume

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Electron-Michael Springford 1997-03-06 A multi-author centenary volume celebrating the discovery of the electron.  
Introduction to Conventional Transmission Electron Microscopy-Marc De Graef 2003-03-27 This 2003 book covers the fundamentals of conventional transmission electron microscopy (CTEM) as applied to crystalline solids. Emphasis is on the experimental and computational methods used to quantify and analyze CTEM observations. A supplementary website containing interactive modules and free Fortran source code accompanies the text. The book starts with the basics of crystallography and quantum mechanics providing a sound mathematical footing for the rest of the text. The next section deals with the microscope itself, describing the various components in terms of the underlying theory. The second half of the book focuses on the dynamical theory of electron scattering in solids including its applications to perfect and defective crystals, electron diffraction and phase contrast techniques. Based on a lecture course given by the author in the Department of Materials Science and Engineering at Carnegie Mellon University, the book is ideal for graduate students as well as researchers new to the field.  
Histories of the Electron-Jed Z. Buchwald 2004-01-30 A biography of the electron and a history of the microphysical world that it opened up.  
Electron Paramagnetic Resonance-John A. Weil 2007-01-09 This book provides an introduction to the underlying theory, fundamentals, and applications of EPR spectroscopy, as well as new developments in the area. Knowledge of the topics presented will allow the reader to interpret of a wide range of EPR spectra, as well as help them to apply EPR techniques to problem solving in a wide range of areas: organic, inorganic, biological, and analytical chemistry; chemical physics, geophysics, and mineralogy. Includes updated information on high frequency and multi-frequency EPR, pulsed microwave techniques and spectra analysis, dynamic effects, relaxation phenomena, computer-based spectra simulation, biomedical aspects of EPR, and more Equips readers with sufficient knowledge of EPR techniques to go on in their specialized area of interest Provides problem sets and concise bibliographies at the end of each chapter, plus several tutorial appendices on topics like mathematical operations, quantum mechanics of angular momentum, experimental considerations.  
Archives Internationales D'histoire Des Sciences- 1998  
J.J. Thomson And The Discovery Of The Electron-E. A. Davis 1997-06-02 This historical survey of the discovery of the electron has been published to coincide with the centenary of the discovery. The text maps the life and achievements of J.J. Thomson, with particular focus on his ideas and experiments leading to the discovery. It describes Thomson's early years and education. It then considers his career at Cambridge, first as a fellow of Trinity, later as the head of the Cavendish Laboratory and finally as Master of Trinity and national spokesman for science. The core of the book is concerned with the work undertaken at the Cavendish, culminating in the discovery of "corpuscles", later named "electrons";. In the final two chapters, the immediate aftermath and implications of the work are described. These include the creation of the subject of atomic physics as well as the broader long term developments which can be traced from vacuum valves and the transistor through to the microelectronics revolution.  
Where Do You Stop?-Eric Kraft 1995-01-15 "Where do you stop?" is the question posed by Miss Rheingold, the intoxicating new teacher of Peter Leroy's junior high school class. That question forms the basis of a science paper that Peter spends thirty years trying to complete-along the way exploring quantum physics, entropy, epistemology, principles of uncertainty and discontinuity, and a range of Life's Big Questions. Deceptively simple and warmly engaging, Eric Kraft's novel is an ingenious portrait of a small American town in the 1950s, when the atom seemed to hold the key to the mystery of creation, as well as the power to utterly destroy it.  
Science and Its Times: 1800-1899-Neil Schlager 2000 Exploration and Discovery - Life Sciences - Mathematics - Medicine - Physical Sciences - Technology and Invention.  
Journal of Physics A- 1999  
The Cumulative Book Index- 1998 A world list of books in the English language.  
IETE Technical Review- 1997  
Advances in Imaging and Electron Physics-Peter W. Hawkes 2004-12-18 \* A special volume devoted principally to the role of the late Sir Charles Oatley in the development of the scanning electron microscopeings \* It contains historical articles and reminiscences by most of the scientists who have worked on the scanning electron microscope in Oatley's laboratory \* Emphasizes broad and in depth article collaborations between world-renowned scientists in the field of image and electron physics Although the scanning electron microscope had a prehistory in Germany and the USA, its real champion was Charles Oatley, who launched his project in the Cambridge University Engineering Department shortly after the end of World War II. A first microscope was built successfully by D. McMullan, one of the Guest Editors of this volume and a succession of progressively improved instruments followed. One in particular, built by K.C.A. Smith was commissioned specially for the Canadian Pulp and Paper Research Institute for use in their Montreal laboratories. All these efforts culminated in the commercial model built by the Cambridge Instrument Company and marketed in 1965 under the trade name, Stereoscan. Although this story has been told on several occasions, in particular in these Advances, it seemed appropriate, in the centenary year of the birth of Sir Charles Oatley, that more details should be published to celebrate these achievements. This volume is the result. It contains not only historical articles and reminiscences by most of the scientists who have worked on the scanning electron microscope in Oatley's laboratory but also full or partial reproductions of many of the key publications, beginning with McMullan's early paper of 1953 and including Oatley's own "Early history of the scanning electron microscope" (1982). A website has been created, in which supplementary material is collected. This volume is a tribute to a bold pioneering scientist and a vivid record of the creation of the first commercial scanning electron microscopes and of subsequent developments. \* A special volume devoted principally to the role of the late Sir Charles Oatley in the development of the scanning electron microscopeings \* It contains historical articles and reminiscences by most of the scientists who have worked on the scanning electron microscope in Oatley's laboratory \* Emphasizes broad and in depth article collaborations between world-renowned scientists in the field of image and electron physics  
Chemical Heritage- 1997  
Centenary Volume, 1955-Presidency College, Calcutta 1956  
Florida Scientist- 2005  
Current Contents. Arts & Humanities-Institute for scientific information (Philadelphie, Pa).  
Sri Sri Thakur Anukulchandra Centenary Volume- 1988 Contributed articles on the life and philosophy of Anukulācandra, 1888-1969, Hindu religious leader.  
Philosophie als Wissenschaft-Gesellschaft für Analytische Philosophie. Internationaler Kongress 2005  
Defect and Impurity Engineered Semiconductors and Devices- 1998  
What is the Electron?-Volodimir Simulik 2005 This book brings together papers by a number of authors. More than ten different models of the electron are presented and more than twenty models are discussed briefly. Thus, the book gives a complete picture of contemporary theoretical thinking (traditional and new) about the physics of the electron.  
Electron Microscopy and Analysis 1997, Proceedings of the Institute of Physics Electron Microscopy and Analysis Group Conference, University of Cambridge, 2-5 September 1997-Rodenburg 1997-01-01 Electron Microscopy and Analysis 1997 celebrates the centenary anniversary of the discovery of the electron by J.J. Thomson in Cambridge and the fiftieth anniversary of this distinguished Institute group. The book includes papers on the early history of electron microscopy (from P. Hawkes), the development of the scanning electron microscope at Cambridge (from K. Smith), electron energy loss spectroscopy (from L.M. Brown), imaging methods (from J. Spence), and the future of electron microscopy (from C. Humphreys). Covering a wide range of applications of advanced techniques, it discusses electron imaging, electron energy-loss and x-ray analysis, and scanning probe and electron beam microscopies. This volume is a handy reference for professionals using microscopes in all areas of physics, materials science, metallurgy, and surface science to gain an overview of developments in our understanding of materials microstructure and of advances in microscope interrogation techniques.  
GRADIVA JOURNAL OF CONTEMPORARY THEORY AND PRACTICE- 2000  
A Special Issue on the Birth Centenary of Professor K.S. Krishnan (1898-1961)- 1999  
A History of the Electron-Jaume Navarro 2012-09-06 Intellectual biography of J. J. and G. P. Thomson for academics and graduate students, focusing on the concept of the electron.  
Book Review Index- 1999 Every 3rd issue is a quarterly cumulation.  
American Book Publishing Record- 1997  
Centenary Addresses-University College, London 1928  
Proceedings of the Sir Arthur Eddington Centenary Symposium: On relativity theory-Venzo De Sabbata  
Interior Structure of the Earth and Planets-Vladimir Naumovich Zharkov 1986 This text provides a solid introduction to advanced geophysics. Part I focuses on the interior structure of the earth, featuring a large section on plate tectonics and discussing such problems as the source mechanisms of earthquakes, tides, the rheology of the crust and mantle and the evolution of the lunar orbit. Part II focuses on the interior structure of the moon, the giant planets and the structure of the Galilean satellites of Jupiter and Titan and the icy satellites of Saturn.  
Geophysical Research in Norway, Annual Report- 1961  
European Journal of Inorganic Chemistry- 2001  
Electron Microscopy and Analysis- 1997  
The British National Bibliography-Arthur James Wells 1998  
Journal of the Physical Society of Japan- 2007  
The Law of Mass Action-Norske videnskaps-akademi i Oslo 1964 In celebration of the centenary of the law of mass action.  
Science Observed-Irving Bernstein 1982-03-11 Essays discuss programmed intelligence, nuclear weapons, the creators of quantum theory, time, fusion, science on television, and catastrophe theory  
Mythology-Jurgen Kleist 1992 This book is a collection of sixteen essays by scholars who participated in a Mythology Symposium at the State University of New York, College at Plattsburgh, in March 1991. The essays are presented under four subject titles: "Ancient Myths in Modern Contexts" (Ulysses, Don Quixote, Don Juan, Amazonian Indians), "Myth and Society" (French-Canadian Messianism, American Exceptionalism, German-Jewish Tolerance, and Socialism), "Myth and the Human Condition" (in works of Camus, Ionesco, and Beckett), and "Myth, Science, and Technology" (the Gaia-concept, artificial intelligence, post-nuclear Re-Creation, and the film -Back to the Future, Part II-).  
Centenary Conference-Australasian Institute of Mining and Metallurgy, Conference 1993  
High Energy Physics Index- 1992  
On Relativity Theory-Y. Choquet 1985

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