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Quantum mechanics provides the
fundamental theoretical apparatus for
describing the structure and properties of
atoms and molecules in terms of the
behaviour of their fundamental
components, electrons and nucleons. For
heavy atoms and molecules containing
them, the electrons can move at speeds
which represent a substantial fraction of
the speed of light, and thus relativity
must be taken into account. Relativistic
quantum mechanics therefore provides
the basic formalism for calculating the
properties of heavy-atom systems. The
purpose of this book is to provide a
detailed description of the application of
relativistic quantum mechanics to the
many-body problem in the theoretical
chemistry and physics of heavy and
superheavy elements. Recent years have
witnessed a continued and growing
interest in relativistic quantum chemical
methods and the associated computa-
tional algorithms which facilitate their
application. This interest is fuelled by
the need to develop robust, yet efficient
theoretical approaches, together with
efficient algorithms, which can be applied
to atoms in the lower part of the Periodic
Table and, more particularly, molecules
and molecular entities containing such
atoms. Such relativistic theories and
computational algorithms are an essential
ingredient for the description of heavy

element chemistry, becoming even more
important in the case of superheavy
elements. They are destined to become
an indispensable tool in the quantum
chemist's armoury. Indeed, since
relativity influences the structure of
every atom in the Periodic Table,
relativistic molecular structure methods
may replace in many applications the non-
relativistic techniques widely used in
contemporary research.

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volume are based on the presentations at the 2020
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deploying learning technologies, proposing
pedagogical approaches and practices to address
digital transformation, and presenting case studies
of specific technologies and contexts. The chapters
form a lively debate and provide a comprehensive
analysis of the contribution of learning
technologies designed to improve the learning
process and the experience of the students as well
as to develop key competences.

*Addison-Wesley Chemistry Laboratory
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Journal of Chemical Education DIANE Publishing

In 2001, the Nobel Foundation celebrated the 100th anniversary of the first Nobel Prize, and

all previous Nobel laureates were invited to attend the Nobel ceremonies in Stockholm. This gave an excellent opportunity for arranging jubilee symposia with topics that would attract several of the laureates. The chosen subject of "Condensation and Coherence in Condensed Systems" attracted sixteen Nobel laureates and another thirty-five leading scientists. The idea was to bring scientists together from several related subdisciplines: atomic physics, quantum optics, and condensed matter physics, for cross-breeding of ideas, concepts, and experience. Subjects like phase transitions in strongly coupled systems, Bose–Einstein condensation in weakly coupled systems, macroscopic quantum phenomena, coherence in mesoscopic structures, and quantum information were intensively discussed from different points of view. Coherence phenomena in condensed systems were emphasized. A special session was devoted to the emerging field of quantum computing, with experimental and theoretical results reported for different types of qu-bits. The 2001 Nobel Prize awarded to Eric Cornell, Wolfgang Ketterle, and Carl Wieman, "for the achievement of Bose–Einstein condensation in dilute gases of alkali atoms, and for early fundamental studies of the properties of the condensates," gave an extra flavor to the theme of the Centennial Symposium.

Contents: Quantum Coherence Between States with Even and Odd Numbers of Electrons (A F Andreev) Electron Spin in Single Wall Carbon Nanotubes (P E Lindelof et al.) Superfluidity and Coherence in Bose–Einstein Condensates (W Ketterle) Jahn–Teller Bipolarons and Their Condensation (K A Müller) Probing Quantum Mechanics Towards the Everyday World: Where Do We Stand? (A J Leggett) The Question of Phase in a Bose–Einstein Condensate (S Stenholm) Experiments with d-Wave Superconductors (J Mannhart et al.) Noise and Decoherence in Quantum Two-Level Systems (A Shnirman et al.) Coherent Manipulations of Charge-Number States in a Cooper-Pair Box (Y Nakamura et al.) Quiet Readout of Superconducting Flux States (J Clarke et al.) and other papers Readership: Researchers in atomic physics, quantum optics and condensed matter physics.

Keywords: Condensation; Coherence; Condensed Matter; Phase Transitions; Quantum Computing
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;Contents: Lethality in sheep exposed to 60CO gamma radiation using various exposure parameters; Hematological findings in sheep exposed to lethal levels of 60CO gamma rays at various dose rates and under various conditions of exposure; Cellular changes in bone marrow of mice and sheep during and after exposure to 60CO gamma rays; Biological and mathematical analysis of lethality in large animals exposed to ionizing radiation.

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