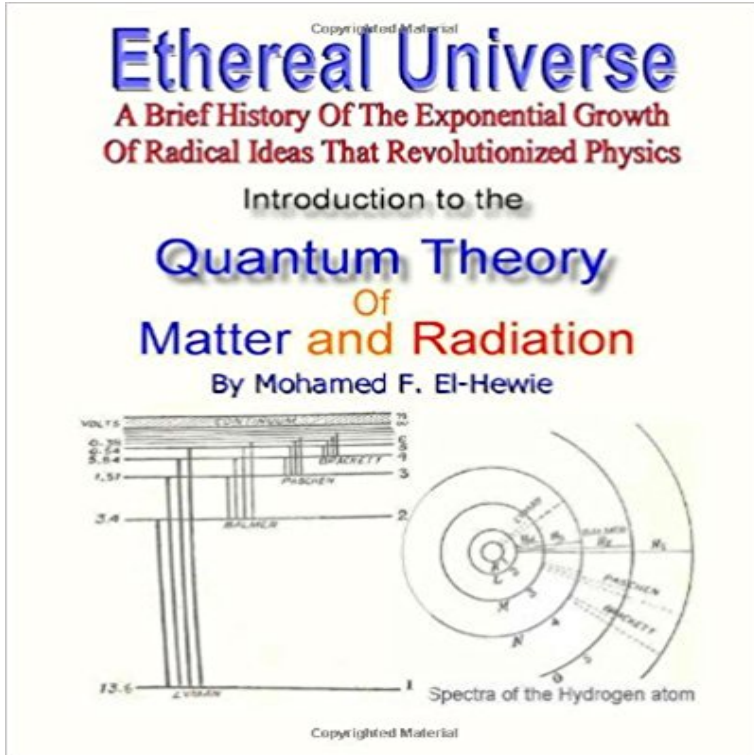


Introduction to The Quantum Theory of Matter and Radiation: Ethereal Universe



This revised edition narrates the brief history of the people, the events, and the ideas that advanced mankind into the electrical, nuclear, and space ages. The book describes the basic concepts of Quantum Mechanics and the efforts made to decipher the secrets of the structure of atoms, molecules, crystals and elementary nuclear particles. The author emphasizes the inherent limitations of classical mechanics that led to paradoxical outcome of the special theory of relativity, which in turn infected Diracs attempts to rehabilitate the Schrodingers Quantum Wave Equations. During the hundred and ten odd years of its existence, Quantum Mechanics has passed through three distinct stages of development. The first stage began by Plancks quanta and ended de Broglies matter waves. It could be properly described as the stage of structuring the electronic shells of the atom. The second stage in the development of Quantum Mechanics began with de Broglies discovery of matter waves, in 1924 and ended with the end of WWII. It could be properly described as the stage of deciphering the nuclear forces of the atomic core. The theory of the nucleus of the atom was created and new elementary particles were discovered that revealed some of the secrets of the nuclear forces. The third period began after World War II with the invention of nuclear reactors, radiospectrometers, and high altitude flights. This stage could be properly described as the phase of high energy exploration of the nuclear elementary particles. During this stage, Quantum Mechanics come up against ever greater difficulties, setbacks and failures. The newly discovered behaviors of elementary particles and their interactions shook the foundation of the old laws upon which Quantum Mechanics was erected.

CHAPTER 1: THE ROAD TO THE ATOM: 1792-1900 The Creation from

Nothing The Road to Conservation Newton
Laws of Conservation Beginning of the
Steam Age The French Revolution Birth of
Electricity Nobels Incentive Landmarks of
the Nineteenth Century Ethereal Space
Light Spectrum of Elements Discovery of
the Electron Thomson Model of the Atom
Lorentz Transformation Discovery of
X-rays Discovery of Radioactivity
Classical Senses and Cannons Birth of
Quantum Mechanics Thermal Radiation
Black Body Radiation Boltzmann-Wien
Laws Rayleigh-Jeans Law CHAPTER 2:
THE BIRTH OF THE QUANTA Thermal
Radiation at High Frequencies The Quanta
Photons and Corpuscles Discovery of
Photons Dual Nature of Light Rutherford
Atom Model Bohr Atom Model Privileged
Atomic Quantum Orbits Emission and
Absorption of Radiation Brightness and
Spin of Emitted Radiation de Broglie
Matter Waves Dual Properties of Electrons
Electron Diffraction Quantum Wave
Theory Probability Wave Function
Uncertainty Relation Tunnel Effect
Schrodinger Equation Harmonic Oscillator
Paulis Exclusion Principle The Spin
Electronic Architecture of the Atom
Periodic Table of Elements Atomic
Spectrum CHAPTER 3: MOLECULES
AND SOLIDS Molecules Ionic molecule
Covalent molecules. Quantum Mechanics
of Solids Compound crystals Metallic
crystals Stark Effect Molecular Levels of
Energy Insulators Conduction in Metal
Superconductivity Semiconductors
CHAPTER 4: THE INTERIOR OF THE
NUCLEUS Radioactivity The Nucleus of
the Atom The Neutron Nuclear Forces
Discovery of the Meson Nuclear Stability
and Abundance Alpha Particle Decay
Nuclear Energy Levels Gamma Ray Decay
Nuclear Fission Beta Particles Decay The
Discovery of the Neutrino Electron
Capture CHAPTER 5: ELEMENTARY
NUCLEAR PARTICLES Relativistic
Quantum Mechanics Diracs Quantum
Wave Equations Discovery of Anti-matter
Action at a Distance Field and Matter
Decay of Subatomic Particles Deduction of
Coulombs Law Classification of

Elementary Particles Decay of Elementary Particles CHAPTER 6: CRITIQUE ON QUANTUM MECHANICS Critique on the Special Theory of Relativity Critique on the Theory of Matter Waves CHAPTER 7: CONTRIBUTION BY NATIONS OF SCIENTISTS CHAPTER 8: MAIN FACTS

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