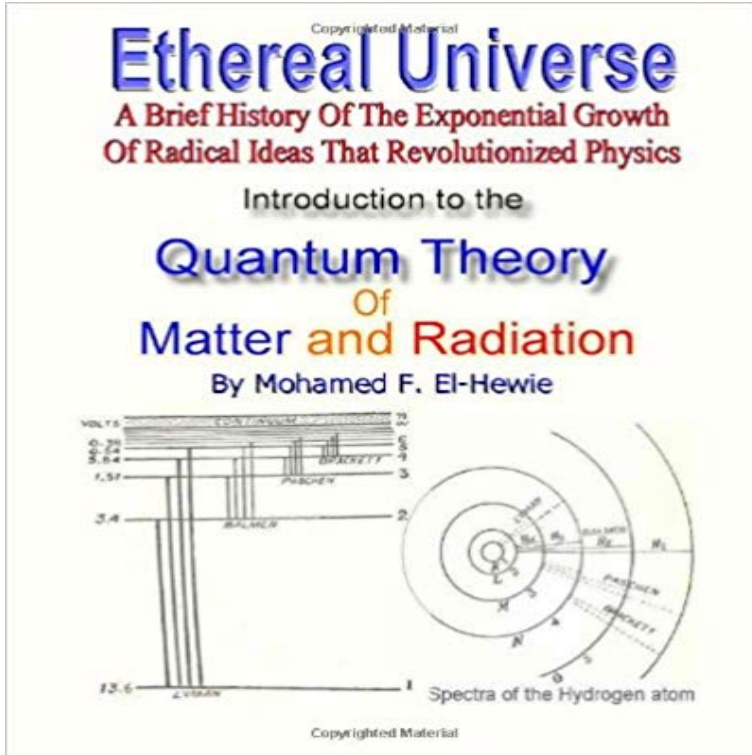


# Introduction to The Quantum Theory of Matter and Radiation: Ethereal Universe



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.

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