Shankar's Principles of Quantum Mechanics is the most modern quantum mechanics textbook out there. It uses the modern techniques to solve the standard problems and generally sets up someone using the text to be well-versed in current research methods. Some good advanced books about Quantum Mechanics include: Quantum Mechanics: An Introduction, by Walter Greiner, with a foreword by D.A. Bromley. Quantum Mechanics: Special Chapters, by Walter Greiner, with a foreword by D.A. Bromley. Advanced Quantum Mechanics book. Read reviews from world’s largest community for readers. Quantum mechanics (QM; also known as quantum physics or quantum) including quantum field theory, is a fundamental branch of physics concerned with processes involving, for example, atoms and photons. In such processes, said to be quantized, the action has been observed to be only in integer multiples of the Planck constant, a physical quantity that is exceedingly, i Quantum mechanics (QM; also known as quantum physics or quantum theory) including quantum field theory, is a fundamental branch of physics concerned with processes involving, for example, atoms and photons. This second volume on quantum mechanics by Franz Schwabl discusses nonrelativistic multi-particle systems, relativistic wave equations and relativistic fields. As usual the text follows a compelling mathematical presentation where all intermediate steps are given and where numerous examples for application and exercises help the student to gain thorough knowledge of the subject. The presentation of relativistic wave equations and their symmetries and the fundamentals of quantum field theory lay the foundations for advanced studies in solid-state physics, nuclear and elementary particle physics.