

Quantum Mechanics of One- and Two-Electron Atoms

Hans A. Bethe
Edwin E. Salpeter

Quantum Mechanics Of One And Two Electron Atoms

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Quantum Mechanics of One- and Two-Electron Atoms Hans A. Bethe, Edwin E. Salpeter, 2012-12-06 This book was written twenty years ago but we are leaving it unchanged not because little has happened to the subject but because so much has happened that any change would require very major rewriting On the other hand no other book on the subject seems to have appeared and we hope this paperback edition will be of some use to a younger generation if not for another twenty years at least until someone else has the patience to write a new book Although we have added no new material we have corrected some misprints We have added new references only where they correct actual errors We are grateful to Drs G Feinberg M Inokuti Y Kim and A Petermann for pointing out errors Nearly all of this book is taken from an article prepared for a volume of the Encyclopedia of Physics This article in turn is partly based on Dr Norbert Rosenzweig's translation of an older article on the same subject written by one of us H A B about 25 years ago for the Geiger Scheel Handbuch der Physik To the article written last year we have added some Addenda and Errata These Addenda and Errata refer back to some of the 79 sections of the main text and contain some misprint corrections additional references and some notes

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like atoms and their comparison with experiments However these calculations involve a vast array of approximation methods mathematical tricks and physical pictures which are also useful in the application of quantum mechanics to other fields In many sections we have given more general discussions of the methods and physical ideas than is necessary for the study of the H and He atom alone We hope that this book will thus at least partly fulfill its second aim namely to be of some use to graduate students who wish to learn applied quantum mechanics A basic knowledge of the principles of quantum mechanics such as given in the early chapters of SCHIFF's or BOHM's book is presupposed

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Structure of Multielectron Atoms Anders Kastberg, 2020-04-23 This book is about the structure of multielectron atoms and predominantly adopts a perturbative approach to the total Hamiltonian A key concept is the central field approximation and beyond the standard LS coupling and jj coupling schemes intermediate cases are also treated After that the book covers hyperfine structure and other nuclear effects as well as interactions with static external fields Throughout the book an analytical approach is adopted Working knowledge of basic quantum mechanics including the non relativistic hydrogen atom basic angular momentum and perturbation theory is assumed and it begins with a brief recap of the hydrogen orbitals before turning towards the symmetry aspects of multi electron atoms spin orbit interaction and couplings of angular momenta

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