Interacting Electrons And Quantum Magnetism

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Reviews of Modern Physics Chemistry Quantum Kinetic Theory and Applications *Assa Auerbach Peter Fulde Hans A. Bethe Tara P. Das Hendrik Bluhm Shigeji Fujita Hans Albrecht Bethe Hans Albrecht Bethe Gabriele Giuliani Akira Tonomura Jean-claude Toledano Malcolm H. Mac Gregor Arthur Holly Compton Shigeji Fujita J. J. Thomson Joseph Walter Buttle Fedir T. Vasko*

in the excitement and rapid pace of developments writing pedagogical texts has low priority for most researchers however in transforming my lecture l notes into this book i found a personal benefit the organization of what i understand in a hopefully simple logical sequence very little in this text is my original contribution most of the knowledge was collected from the research literature some was acquired by conversations with colleagues a kind of physics oral tradition passed between disciples of a similar faith for many years diagramatic perturbation theory has been the major theoretical tool for treating interactions in metals semiconductors itiner ant magnets and superconductors it is in essence a weak coupling expan sion about free quasiparticles many experimental discoveries during the last decade including heavy fermions fractional quantum hall effect high temperature superconductivity and quantum spin chains are not readily accessible from the weak coupling point of view therefore recent years have seen vigorous development of alternative nonperturbative tools for handling strong electron electron interactions i concentrate on two basic paradigms of strongly interacting or con strained quantum systems the hubbard model and the heisenberg model these models are vehicles for fundamental concepts such as effective ha miltonians variational ground states spontaneous symmetry breaking and quantum disorder in addition they are used as test grounds for various nonperturbative approximation schemes that have found applications in diverse areas of theoretical physics

IT INTENDS TO PROVIDE GRADUATE STUDENTS AND RESEARCHERS A COMPREHENSIVE SURVEY OF ELECTRON CORRELATIONS WEAK AND STRONG IN INSULATORS SEMICONDUCTORS AND METALS THIS TOPIC IS A CENTRAL ONE IN CONDENSED MATTER AND BEYOND THAT IN THEORETICAL PHYSICS P 4 OF COVER

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 THE AIM OF THIS BOOK IS TWO FOLD FIRST TO ACT AS A REFERENCE WORK ON CALCU LATIONS PERTAINING TO HYDROGEN LIKE AND HELIUM 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

AS A CONTINUATION OF CLASSICAL CONDENSED MATTER PHYSICS TEXTS THIS GRADUATE TEXTBOOK INTRODUCES ADVANCED TOPICS OF CORRELATED ELECTRON SYSTEMS MESOSCOPIC TRANSPORT QUANTUM COMPUTING OPTICAL EXCITATIONS AND TOPOLOGICAL INSULATORS THE BOOK IS FOCUSING ON AN INTUITIVE UNDERSTANDING OF THE BASIC CONCEPTS OF THESE RATHER COMPLEX SUBJECTS

MAJOR SUPERCONDUCTING PROPERTIES INCLUDING ZERO RESISTANCE MEISSNER EFFECT SHARP PHASE CHANGE FLUX QUANTIZATION EXCITATION ENERGY GAP JOSEPHSON EFFECTS ARE COVERED AND MICROSCOPICALLY EXPLAINED USING QUANTUM STATISTICAL MECHANICAL CALCULATIONS FIRST TREATED ARE THE 2D SUPERCONDUCTIVITY AND THEN THE QUANTUM HALL EFFECTS INCLUDED ARE EXERCISE TYPE PROBLEMS FOR EACH SECTION READERS CAN GRASP THE CONCEPTS COVERED IN THE BOOK BY FOLLOWING THE WORKED THROUGH PROBLEMS BIBLIOGRAPHIES ARE INCLUDED IN EACH CHAPTER AND A GLOSSARY AND LIST OF SYMBOLS ARE GIVEN IN THE BEGINNING OF THE BOOK THE BOOK IS BASED ON THE MATERIALS TAUGHT BY S FUJITA FOR SEVERAL COURSES IN QUANTUM THEORY OF SOLIDS ADVANCED TOPICS IN MODERN PHYSICS AND QUANTUM STATISTICAL MECHANICS

VOLS FOR 1903 INCLUDE PROCEEDINGS OF THE AMERICAN PHYSICAL SOCIETY

COMPREHENSIVE GRADUATE TEXT ON SUBJECT OF IMPORTANCE IN CONDENSED MATTER PHYSICS ELECTRICAL ENGINEERING AND QUANTUM CHEMISTRY

THIS BOOK EMPHASIZES THE EXPERIMENTAL ASPECTS OF THE AUTHOR S OWN LABORATORY INSTEAD OF MERELY PRESENTING A DRY COLLECTION OF KNOWLEDGE THE AUTHOR UNFOLDS TO THE READERS HIS VIVID EXPERIENCES OF ENTHUSIASM SHEER PLEASURE AND YET FRUSTRATIONS IN THE COURSE OF HIS OWN RESEARCH IN THIS WAY THE BOOK AIMS TO AROUSE THE READER S CURIOSITY IN THE STRANGE BEHAVIORS OF ELECTRONS IN THE MICROSCOPIC WORLD WHICH DIFFER SIGNIFICANTLY FROM OUR COMMON SENSE AND DAILY EXPERIENCES OF THE MACROSCOPIC WORLD THE FIELDS OF PHYSICS EXPLORED IN THE BOOK ARE QUANTUM MECHANICS SUPERCONDUCTIVITY ELECTRON MICROSCOPY HOLOGRAPHY MAGNETISM AND UNIFIED THEORY AREAS OF THE AUTHOR S STUDY USING ELECTRON WAVES A WORLD RENOWNED EXPERT IN ELECTRON HOLOGRAPHY THE AUTHOR PROMISES THE INTERESTED READER A FASCINATING RIDE THROUGH THE QUANTUM WORLD OF ELECTRON WAVES ACCOMPANIED BY MANY COLORFUL ILLUSTRATIONS THAT DELIGHT THE SENSES AND CAPTIVATE THE IMAGINATION

PRIMARILY AIMING TO GIVE UNDERGRADUATE STUDENTS AN INTRODUCTION TO SOLID STATE PHYSICS PHYSICS OF ELECTRONS IN SOLIDS EXPLAINS THE PROPERTIES OF SOLIDS THROUGH THE STUDY OF NON INTERACTING ELECTRONS IN SOLIDS WHILE EACH CHAPTER CONTAINS A QUALITATIVE INTRODUCTION TO THE MAIN IDEAS BEHIND SOLID STATE PHYSICS IT ALSO PROVIDES DETAILED CALCULATIONS OF UTMOST IMPORTANCE TO GRADUATE STUDENTS THE INTRODUCTORY CHAPTERS CONTAIN CRYSTALLOGRAPHIC AND QUANTUM PREREQUISITES THE CENTRAL CHAPTERS ARE DEVOTED TO THE QUANTUM STATES OF AN INDEPENDENT ELECTRON IN A CRYSTAL AND TO THE EQUILIBRIUM PROPERTIES OF CONDUCTORS INSULATORS AND SEMICONDUCTORS THE FINAL CHAPTERS CONTAIN INSIGHTS INTO THE ASSUMPTIONS MADE THROUGHOUT BRIEFLY DESCRIBING THE ORIGIN OF FERROMAGNETISM AND SUPERCONDUCTIVITY THE BOOK ENDS WITH EXERCISES AND SOLUTIONS BASED ON A PHYSICS COURSE TAUGHT BY THE AUTHOR AT COLE POLYTECHNIQUE

THE RATIONALE FOR THE PRESENT BOOK PERHAPS THE MOST CRITICAL PROBLEM FACING PRESENT DAY PARTICLE PHYSICISTSIS TO DELINEATE THE RELATIONSHIP BETWEEN CLASSICAL AND QUANTUM SYSTEMS THIS RELATIONSHIP HAS MANY FACETS PARTICLE WAVEDUALITY IS ONE THE CONCEPT OF THE POINT PARTICLE IS ANOTHER AND THECONCEPT OF PARTICLE MASS IS YET ANOTHER THE ELECTRON AS THE LIGHTEST OF THE CHARGED PARTICLES REPRESENTS A FUNDAMENTAL GROUND STATE AND MANY OF THE ESSENTIAL PROBLEMS IN THE MURKY AREA BETWEEN THE DOMAINSOFCLASSICAL AND QUANTUM PHYSICS CAN BE BROUGHT INTO FOCUS BY STUDYINGJUST THIS ONE PARTICLE THUS THE PRESENT BOOK IS CENTERED ON QUESTIONS THAT ARISE IN CONNECTION WITH THE ELECTRON AND IN PARTICULAR WITH ITS MASS WHICH HAS REMAINED AN UNSOLVED AND INDEED ALMOST UNEXPLORED MYSTERY EACH STUDENT OFPHYSICS BEGINNER AND PROFESSIONAL ALIKE HAS TO FASHION FOR HIMSELFA WAY OF THINKING ABOUT THE ELECTRON IF AFTER READING THIS BOOK THE READER VIEWS THIS TOPIC SOMEWHAT DIFFERENTLY THAN BEFORE THE EFFORTS OF THE AUTHOR WILL HAVE BEEN AMPLY REWARDED WHEN PHYSICISTS WERE CONFRONTED WITH THE PROPERTIES OF THE ELECTRON THEY MADE A CONCEPTUALLEAP INTO THE UNKNOWN THEY CONCLUDED

THAT THE ELECTRON DOES NOT OBEY CLASSICAL LAWS WITH RESPECT TO MECHANICS AS CONNECTED TO THE SPIN OF THE ELECTRON AND ALSO WITH RESPECT TO ELECTRODYNAMICS AS CONNECTED TO THE MAGNETIC MOMENT OF THE ELECTRON

IN A COMPLEX FIELD THIS WORK IS A FIRST THE AUTHORS MAKE AN IMPORTANT CONNECTION BETWEEN THE CONDUCTION ELECTRONS AND THE FERMI SURFACE IN AN ELEMENTARY MANNER IN THE TEXT NO CURRENTLY AVAILABLE TEXT EXPLAINS THIS CONNECTION THEY DO THIS BY DERIVING NEWTONIAN EQUATIONS OF MOTION FOR THE BLOCH ELECTRON AND DIAGONALIZING THE INVERSE MASS SYMMETRIC TENSOR THE AUTHORS PLAN TO FOLLOW UP THIS BOOK WITH A SECOND MORE ADVANCED BOOK ON SUPERCONDUCTIVITY AND THE QUANTUM HALL EFFECT

ORIGINALLY PUBLISHED IN 1928 THIS BOOK DISCUSSES DEBATES AND DELIBERATES THE MANY DISCOVERIES OF MODERN PHYSICS

THIS LECTURE STYLE MONOGRAPH IS ADDRESSED TO SEVERAL CATEGORIES OF READERS FIRST IT WILL BE USEFUL FOR GRADUATE STUDENTS STUDYING THEORY SECOND THE TOPICS COVERED SHOULD BE INTERESTING FOR POSTGRADUATE STUDENTS OF VARIOUS SPECIALIZATIONS THIRD THE RESEARCHERS WHO WANT TO UNDERSTAND THE BACKGROUND OF MODERN THEORETICAL ISSUES IN MORE DETAIL CAN FIND A NUMBER OF USEFUL RESULTS HERE THE PHENOMENA COVERED INVOLVE KINETICS OF ELECTRON PHONON AND PHOTON SYSTEMS IN SOLIDS THE DYNAMICAL PROPERTIES AND INTERACTIONS OF ELECTRONS PHONONS AND PHOTONS ARE BRIEFLY DESCRIBED IN CHAPTER 1 FURTHER IN CHAPTERS 2 8 THE AUTHORS PRESENT THE MAIN THEORETICAL METHODS LINEAR RESPONSE THEORY VARIOUS KINETIC EQUATIONS FOR THE QUASIPARTICLES UNDER CONSIDERATION AND DIAGRAM TECHNIQUE THE PRESENTATION OF THE KEY APPROACHES IS ALWAYS ACCOMPANIED BY SOLUTIONS OF CONCRETE PROBLEMS TO ILLUSTRATE WAYS TO APPLY THE THEORY THE REMAINING CHAPTERS ARE DEVOTED TO VARIOUS MANIFESTATIONS OF QUANTUM TRANSPORT IN SOLIDS THE CHOICE OF PARTICULAR TOPICS IS DETERMINED BY THEIR SCIENTIFIC IMPORTANCE AND METHODOLOGICAL VALUE THE 267

supplementary problems presented in the ends of chapters are offered to guide the reader in self study focusing attention on the methodological aspects and discussing a great diversity of kinetic phenomena in keeping with the guiding principle a method is more important than a result the authors minimize both detailed discussion of physical mechanisms of the phenomena considered and comparison of theoretical results to experimental data

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