

Reinhold Kleiner and Werner Buckel

Superconductivity

An Introduction

Third Edition



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Superconductivity Reinhold Kleiner,Werner Buckel,2015-09-24 Superconductivity The third edition of this proven text has been developed further in both scope and scale to reflect the potential for superconductivity in power engineering to increase efficiency in electricity transmission or engines The landmark reference remains a comprehensive introduction to the field covering every aspect from fundamentals to applications and presenting the latest developments in organic superconductors superconducting interfaces quantum coherence and applications in medicine and industry Due to its precise language and numerous explanatory illustrations it is suitable as an introductory textbook with the level rising smoothly from chapter to chapter such that readers can build on their newly acquired knowledge The authors cover basic properties of superconductors and discuss stability and different material groups with reference to the latest and most promising applications devoting the last third of the book to applications in power engineering medicine and low temperature physics An extensive list of more than 350 references provides an overview of the most important publications on the topic A unique and essential guide for students in physics and engineering as well as a reference for more advanced researchers and young professionals

Superconductivity Werner Buckel,Reinhold Kleiner,2008-07-11 This well respected and established standard work which has been successful for over three decades offers a comprehensive introduction into the topic of superconductivity including its latest developments and applications The book has been completely revised and thoroughly expanded by Professor Reinhold Kleiner By dispensing with complicated mathematical derivations this book is of interest to both science and engineering students For almost three decades now the German version of this book currently in its sixth edition has been established as one of the state of the art works on superconductivity

Theoretische Physik für Studierende des Lehramts 2 Peter Schmüser,2012-12-12 Die Grundlagen der Elektrodynamik und Speziellen Relativitätstheorie werden in systematischer Weise eingefürt Dabei stehen die physikalischen Prinzipien im Vordergrund und nicht so sehr die mathematischen Methoden um Studierenden deren zweites Fach nicht die Mathematik ist einen leichteren Zugang zur Theorie zu bieten Didaktische Anmerkungen und praxisnahebungsaufgaben helfen hierbei Ausführlichere Rechnungen finden sich in den Anhängen des Buches Es wird konsequent das Internationale Einheitensystem verwendet um mit den Lehrbüchern der Experimental und Schulphysik kompatibel zu sein Wichtige physikalische Begriffsbildungen werden aufgeführt diskutiert und mit einer Vielzahl von Abbildungen illustriert beispielsweise das Konzept des elektrischen Feldes und die Unterscheidung zwischen Fern und Nahwirkung die Rolle der Felder E und B sowie D und H oder die Bedeutung des Verschiebungsstroms Querverbindungen zur Quantentheorie sind die Eichinvarianz und der Aharonov Bohm Effekt In der Relativitätstheorie werden folgende Themen behandelt Inertialsysteme Lorentz Transformation Zeitdilatation und Zwillingsparadoxon mit Beispielen Addition von Geschwindigkeiten relativistische Masse und Energie Doppler Effekt Vierervektoren Anwendungen in der Beschleuniger und Elementarteilchenphysik Die enge Verknüpfung der

elektromagnetischen Erscheinungen mit der Relativitätstheorie wird herausgearbeitet Besonders wichtig ist die Erkenntnis dass die Lorentz Kraft als relativistische Energie der Coulomb Kraft gedeutet werden kann Im letzten Kapitel wird ein Ausblick auf die Dirac Gleichung gegeben als relativistische Verallgemeinerung der Schrödinger Gleichung Die fundamentalen neuen Vorhersagen werden diskutiert Existenz der Antiteilchen Spin 1/2 und anomales magnetisches Moment des Elektrons *Superconductivity. Fundamentals and Applications* Werner Buckel, 1991-04-30 Werner Buckel *Superconductivity Fundamentals and Applications* Comprehensive and easy to understand this introductory text on superconductivity was especially written for the non specialist The author an active researcher in the field for more than forty years first presents the fundamental considerations without too much mathematics He describes the various phenomena connected with the superconducting state provides experimental facts and discusses numerous examples for modern applications The new high temperature superconductors are also dealt with in detail For almost two decades now the German version of this book currently in its fourth edition has been the best selling standard work on superconductivity

Introduction to Superconductivity A.C. Rose-Innes, 2012-12-02 Introduction to Superconductivity differs from the first edition chiefly in Chapter 11 which has been almost completely rewritten to give a more physically based picture of the effects arising from the long range coherence of the electron waves in superconductors and the operation of quantum interference devices In this revised second edition some further modifications have been made to the text and an extra chapter dealing with high temperature superconductors has been added A vast amount of research has been carried out on these since their discovery in 1986 but the results both theoretical and experimental have often been contradictory and seven years later there remains little understanding of their behavior This book comprises 14 chapters with the first focusing on zero resistance Succeeding chapters then discuss perfect diamagnetism electrodynamics the critical magnetic field thermodynamics of the transition the intermediate state and transport currents in superconductors Other chapters cover the superconducting properties of small specimens the microscopic theory of superconductivity tunneling and the energy gap coherence of the electron pair wave the mixed state critical currents of type II superconductors and high temperature superconductors This book will be of interest to practitioners in the fields of superconductivity and solid state physics

The Physics of Superconductors V.V. Schmidt, 2013-03-09 The author of this book Prof Vadim Vasilievich Schmidt was known in the West as Russian Schmidt Being a talented theoretician and at the same time heading an experimental laboratory in Chernogolovka Vadim Schmidt had a unique talent for explaining complicated physical models and ideas in a simple way One of his favorite sayings was physics is a verbal science The book is based on his introductory course on superconductivity It was published in Russian in 1982 and very soon became undoubtedly the most popular Russian textbook on the physics of superconductors Without losing its generality and depth the book presents key aspects of superconductivity in a very clear and logically structured form As the author said in his preface to the Russian edition he tried to avoid situations when the

words it is easy to show conceal tedious and bulky computations In spite of its relatively small volume the book gives a broad overview and covers the major topics of superconductivity Well selected examples are clearly described and help the reader to understand the ideas presented The book even allows an inexperienced reader to quickly get a grasp of a topic Vadim Schmidt was born in 1927 in Moscow His father was a well known politician and the family did not escape the purges of Stalin's time [Introduction to Superconductivity](#) Michael Tinkham, 2004-01-01 Well known for its accessibility to graduate students and experimental physicists this volume emphasizes physical arguments and minimizes theoretical formalism The second edition of this classic text features revisions by the author that improve its user friendly qualities and an introductory survey of latter day developments in classic superconductivity enhances the volume's value as a reference for researchers Starting with a historical overview the text proceeds with an introduction to the electrodynamics of superconductors and presents expositions of the Bardeen Cooper Schrieffer theory and the Ginzburg Landau theory Additional subjects include magnetic properties of classic type II superconductors the Josephson effect both in terms of basic phenomena and applications and of the phenomena unique to small junctions fluctuation effects in classic superconductors the high temperature superconductors special topics such as the Bogoliubov method magnetic perturbations and gapless superconductivity and time dependent Ginzburg Landau theory and nonequilibrium superconductivity 1996 edition

[Superconductivity](#) Philippe Mangin, Rémi Kahn, 2016-12-20 This book proposes a thorough introduction for a varied audience The reader will master London theory and the Pippard equations and go on to understand type I and type II superconductors their thermodynamics magnetic properties vortex dynamics current transport Cooper pairs and the results of BCS theory By studying coherence and flux quantization he or she will be led to the Josephson effect which with the SQUID is a good example of the applications The reader can make up for any gaps in his knowledge with the use of the appendices follow the logic behind each model and assimilate completely the underlying concepts Approximately 250 illustrations help in developing a thorough understanding This volume is aimed towards masters and doctoral students as well as advanced undergraduates teachers and researchers at all levels coming from a broad range of subjects chemistry physics mechanical and electrical engineering materials science Engineers working in industry will have a useful introduction to other more applied or specialized material Philippe Mangin is emeritus professor of physics at Mines Nancy Graduate School of Science Engineering and Management of the University of Lorraine and researcher at the Jean Lamour Institute in France He is the former director of both the French neutron scattering facility L on Brillouin Laboratory in Orsay and the Material Physics Laboratory in Nancy and has taught superconductivity to a broad audience in particular to engineering students Rémi Kahn is a retired senior research scientist of the French Alternative Energies and Atomic Energy Commission CEA Saclay He worked at the L on Brillouin Laboratory and was in charge of the experimental areas of INB 101 the Orphée research reactor This work responded to the need to bring an accessible account suitable for a wide spectrum of

scientists and engineers **Introduction to Superconductivity** Alistair Christopher Rose-Innes, E. H. Rhoderick, 1969

History and Theory of Superconductors Rudolf P Huebener, 2021-05-28 Rudolf P Huebener presents the field of superconductivity research in a clear and compact way. He vividly describes how this area has developed in many directions since the discovery of superconductivity more than 100 years ago. This concerns materials experiments on the physical principles, theoretical understanding and technical applications. Among other things, the book deals with the Meissner Ochsenfeld effect, magnetic flux quantization, the Josephson effect, the BCS theory and high temperature superconductivity. This Springer essential is a translation of the original German 1st edition 'essentials: Geschichte und Theorie der Supraleiter' by Rudolf P Huebener, published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2017. The translation was done with the help of artificial intelligence machine translation by the service DeepL.com. A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors.

Theory Of Superconductivity J. Robert Schrieffer, 1999 Theory of Superconductivity is considered one of the best treatments of the field. This monograph by Nobel Prize winning physicist J. Robert Schrieffer has been reprinted because of its enduring value as an introduction to the theory of superconductivity. The fundamentals of the theory of superconductivity are stressed as a means of providing the reader with a framework for the literature in which detailed applications of the microscopic theory are made to specific problems. It also serves as a foundation for the more recent development in this active field.

An Introduction to the Theory of Superconductivity Charles Goethe Kuper, 1968

Superconductivity R. D. Parks, 2018-03-29 This volume is an integrated work with a full exposition of the Bardeen Cooper Schrieffer theory, the Ginzburg Landau theory and the Gor'kov treatment of superconductivity. It discusses the fundamental experiments on macroscopic quantum phenomena and the Josephson effect.

Superconductivity V. L. Ginzburg, E. A. Andryushin, 2005 What is superconductivity? How was it discovered? What are the properties of superconductors? How are they applied now and how are they likely to become widely used in the near future? These are just some of the questions which this important book sets out to answer. Starting with the discovery of superconductivity over ninety years ago, the book guides the readers through the many years of subsequent exploration right up to the latest sensational findings. Written in a lively, nontechnical style, this book makes ideal background reading for any school or college level study of superconductivity. The authors, who are leading authorities in the field, paint detailed pictures of the phenomena involved without mathematical formalism, appealing instead to physical intuition.

Discovering Superconductivity Gren Ireson, 2012-07-30 Superconductivity is a quantum phenomenon that manifests itself in materials showing zero electrical resistance below a characteristic temperature, resulting in the potential for an electric current to run continually through such a material without the need for a power source. Such materials are used extensively in medical and

power applications e g MRI and NMR machines Discovering Superconductivity uses a series of practical and investigative activities which can be used as tutor demonstrations or as student lab exercises This highly illustrated text features the following sections Introduction including a brief history of superconductivity Superconductivity an explanation of the phenomenon and its effects Superconducting materials including High Low temperature superconductors Applications how superconductivity is used in medical imaging at CERN and in the Maglev trains This text will serve as an excellent introduction for students with or without a physics background to superconductivity With a strong practical experimental emphasis it provides readers with an overview of the topic preparing them for more advanced texts used in advanced undergraduate and post graduate courses PowerPoint files of the figures presented within this text are available at booksupport.wiley.com A word from the author The intention of this text is to introduce the reader to the study of superconductivity via a minds on approach The minds on approach takes this a stage further by requiring the learner to engage with the process to a greater extent **Superconductivity** Stephen J. Blundell, 2009-05-28 Superconductivity is one of the most exciting areas of research in physics today Outlining the history of its discovery and the race to understand its many mysterious and counter intuitive phenomena this Very Short Introduction explains in accessible terms the theories that have been developed and how they have influenced other areas of science including the Higgs boson of particle physics and ideas about the early Universe It is an engaging and informative account of a fascinating scientific detective story and an intelligible insight into some deep and beautiful ideas of physics **ABOUT THE SERIES** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable **Superconductivity** Roland Combescot, 2022-03-17 Comprehensive and self contained account of the physical foundations of superconductivity and related recent developments in the field **Superconductivity Of Metals And Alloys** P. G. De Gennes, 2018-03-08 Drawn from the author's introductory course at the University of Orsay Superconductivity of Metals and Alloys is intended to explain the basic knowledge of superconductivity for both experimentalists and theoreticians These notes begin with an elementary discussion of magnetic properties of Type I and Type II superconductors The microscopic theory is then built up in the Bogoliubov language of self consistent fields This text provides the classic fundamental basis for any work in the field of superconductivity

Superconductivity: An Introduction Martha Butler, 2021-11-16 The set of certain physical properties which are seen in specific materials is known as superconductivity Due to these physical properties the electrical resistance vanishes and the magnetic flux fields are expelled The materials which show these properties are known as superconductors The resistance in normal metallic conductors decreases gradually when the temperature is lowered even close to absolute zero In superconductors there is a distinctive critical temperature below which the resistance suddenly

drops to zero. Therefore a loop of superconducting wire can keep on conducting electric current indefinitely without any power source. This book traces the progress of this field and highlights some of its key concepts. Most of the topics introduced in it cover new techniques and the applications of superconductivity. The book is appropriate for students seeking detailed information in this area as well as for experts.

History and Theory of Superconductors Rudolf Peter Huebener, 2021

Rudolf P. Huebener presents the field of superconductivity research in a clear and compact way. He vividly describes how this area has developed in many directions since the discovery of superconductivity more than 100 years ago. This concerns materials experiments on the physical principles, theoretical understanding and technical applications. Among other things, the book deals with the Meissner Ochsenfeld effect, magnetic flux quantization, the Josephson effect, the BCS theory and high temperature superconductivity. This Springer essential is a translation of the original German 1st edition *essentials Geschichte und Theorie der Supraleiter* by Rudolf P. Huebener, published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2017. The translation was done with the help of artificial intelligence machine translation by the service DeepL.com. A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors. The content: The discovery of superconductivity, Magnetic penetration depth, coherence length and London theory, Type II superconductivity and the Abrikosov Vortex lattice, Kuprate superconductors and iron pnictides. Technical applications. The target groups: Students and lecturers of physics, engineering and electrical engineering, Pupils and interested laypersons. The Author: Prof. em. Rudolf P. Huebener worked as a physicist at various research centres and institutes in Germany and the USA. He taught and researched at the University of Tbingen from 1974 until his retirement in 1999.

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