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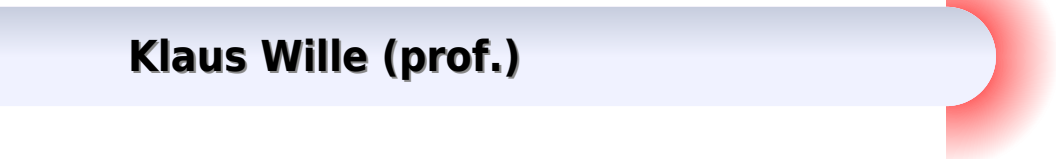
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Supraleitung Grundlagen Und Anwendungen

Klaus Wille (prof.)



Supraleitung Grundlagen Und Anwendungen:

Supraleitung Werner Buckel, Reinhold Kleiner, 2013-01-02 Grundlegende Konzepte und Eigenschaften von Supraleitern die Herstellung und Entwicklung von neuen supraleitenden Materialien sowie moderne Anwendungsbereiche sind die Schwerpunktthemen des Buches Das große Potential zur Nutzung der Supraleitung liegt in der Energietechnik Fast unbemerkt trägt die Einführung von Kabeln Magneten Transformatoren oder Lagern aus supraleitenden Materialien bei zur Effizienzsteigerung bei der Stromübertragung oder in Motoren Durch seine klare Sprache und zahlreiche erläuternde Abbildungen eignet sich der Band hervorragend als einführendes Lehrbuch Der Schwierigkeitsgrad wird von Kapitel zu Kapitel gesteigert So können auch Einsteiger ohne einschlägige Vorkenntnisse dem Stoff folgen Dank der über 350 Literaturhinweise bekommt der Leser außerdem einen Überblick über die wichtigsten Publikationen zum Thema Ein unverzichtbares Lehrbuch also für Physik Studenten und Studierende der Ingenieurwissenschaften Fachleuten in Forschung und Praxis leistet das Buch auch als Nachschlagewerk gute Dienste **Supraleitung** W. Buckel, 1993-11-25 Wer auf dem Gebiet der Supraleitung eine fundierte und umfassende Einführung sucht der wird die aktualisierte und bearbeitete fünfte Auflage mit Gewinn lesen In vorbildlicher Weise entwickelt der Autor die Grundlagen der Supraleitung und liefert zugleich einen auch für den Anfänger verständlichen Überblick über die neuesten Forschungsergebnisse Aus Rezensionen zur vierten Auflage Dem Autor gelingt es die Grundvorstellungen über die Supraleitung anschaulich und ohne großen Formelballast darzustellen Auf dem Hintergrund dieser Vorstellungen werden die vielfältigen Erscheinungen diskutiert und auch die möglichen sinnvollen Anwendungen behandelt Elektro Technik Mit dieser Darstellung wendet sich das Buch ausdrücklich nicht nur an Physiker und Elektroniker sondern auch an interessierte Leser ohne tiefere Fachkenntnisse Physik in unserer Zeit Das Buch ist und bleibt Standardwerk in deutscher Sprache über das Gebiet der Supraleitung Optik *Supraleitung* Werner Buckel, 1973 Supraleitung Werner Buckel, 1977 **Werner Buckel ; Supraleitung** Werner Buckel, 1972 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 essential deals with the Meissner Ochsensfeld 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 Geschichte und Theorie der Supraleiter Rudolf P Huebener, 2017-09-07 übersichtlich und kompakt stellt Rudolf P Huebener das Forschungsgebiet der Supraleitung vor Er schildert anschaulich wie sich dieser Bereich seit Entdeckung der Supraleitung vor über 100 Jahren in viele Richtungen sehr lebendig entwickelt hat Dies betrifft die Materialien Experimente zu den physikalischen Grundlagen das theoretische Verständnis sowie die technischen Anwendungen Unter anderem geht das essential auf den Meissner Ochsensfeld Effekt die magnetische Fluss Quantisierung den Josephson Effekt die BCS Theorie sowie die Hochtemperatur Supraleitung ein *Foundations of Solid State Physics* Siegmund Roth, David Carroll, 2019-04-02 An essential guide to solid state physics through the lens of dimensionality and symmetry Foundations of Solid State Physics introduces the essential topics of solid state physics as taught globally with a focus on understanding the properties of solids from the viewpoint of dimensionality and symmetry Written in a conversational manner and designed to be accessible the book contains a minimal amount of mathematics The authors noted experts on the topic offer an insightful review of the basic topics such as the static and dynamic lattice in real space the reciprocal lattice electrons in solids and transport in materials and devices The book also includes more advanced topics the quasi particle concept phonons solitons polarons excitons strong electron electron correlation light matter interactions and spin systems The authors approach makes it possible to gain a clear understanding of conducting polymers carbon nanotubes nanowires two dimensional chalcogenides perovskites and organic crystals in terms of their expressed dimension topological connectedness and quantum confinement This important guide Offers an understanding of a variety of technology relevant solid state materials in terms of their dimension topology and quantum confinement Contains end of chapter problems with different degrees of difficulty to enhance understanding Treats all classical topics of solid state physics courses plus the physics of low dimensional systems Written for students in physics material sciences and chemistry lecturers and other academics Foundations of Solid State Physics explores the basic and advanced topics of solid state physics with a unique focus on dimensionality and symmetry **The Physics of Particle Accelerators** Klaus Wille (prof.), 2000 The complex technology of particle accelerators is based upon a series of often rather simple physical concepts This comprehensive introduction to the subject focuses on providing a deep physical understanding of these key ideas The book surveys the many aspects of accelerator physics and not only explains how accelerators work but also why the underlying physics leads to a particular choice of design or technique and points out the limitations of the technology The clear and thorough mathematical treatment always emphasizes the physical principles described by the equations and includes a range of calculations which develop a genuine feeling for the quantities and concepts involved Nonequilibrium Electrons and Phonons in Superconductors Armen M. Gulian, Gely F. Zharkov, 2005-12-16 This book introduces the main concepts of nonequilibrium phenomena in superconductors The authors cover both experimentally well understood topics and problems which physicists could challenge more in view of current theoretical understanding Some of these topics include

thermoelectric phenomena influence of laser radiation as well as fluctuations in superconductors

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