

1. Record Nr.	UNINA9910132283703321
Titolo	Applied superconductivity : handbook on devices and applications / / edited by Paul Seidel
Pubbl/distr/stampa	Weinheim an der Bergstrasse, Germany : , : Wiley-VCH, , 2015 ©2015
ISBN	3-527-67065-3 3-527-67063-7 3-527-67066-1
Descrizione fisica	1 online resource (1316 pages)
Collana	Encyclopedia of Applied Physics.
Disciplina	621.35
Soggetti	Superconductivity Superconductors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Applied Superconductivity; Contents; Conductorart by Claus Grupen (drawing); SQUIDart by Claus Grupen (drawing); Preface; List of Contributors; Volume 1; Chapter 1 Fundamentals; 1.1 Superconductivity; 1.1.1 Basic Properties and Parameters of Superconductors; 1.1.1.1 Superconducting Transition and Loss of DC Resistance; 1.1.1.2 Ideal Diamagnetism, Flux Quantization, and Critical Fields; 1.1.1.3 The Origin of Flux Quantization, London Penetration Depth and Ginzburg-Landau Coherence Length; 1.1.1.4 Critical Currents; References; 1.1.2 Review on Superconducting Materials; 1.1.2.1 Introduction 1.1.2.2 Cuprate High-Temperature Superconductors 1.1.2.3 Other Oxide Superconductors; 1.1.2.4 Iron-Based Superconductors; 1.1.2.5 Heavy Fermion Superconductors; 1.1.2.6 Organic and Other Carbon-Based Superconductors; 1.1.2.7 Borides and Borocarbides; References; 1.2 Main Related Effects; 1.2.1 Proximity Effect; 1.2.1.1 Introduction; 1.2.1.2 Metal-Insulator Contact; 1.2.1.3 Normal Metal-Superconductor Contact; 1.2.1.4 Ferromagnetic Metal-Superconductor Contact; 1.2.1.5 New Perspectives and New Challenges; 1.2.1.6 Summary; References; 1.2.2 Tunneling and Superconductivity; 1.2.2.1 Introduction

1.2.2.2 Normal/Insulator/Normal Tunnel Junctions 1.2.2.3
Normal/Insulator/Superconducting Tunnel Junctions; 1.2.2.4
Superconductor/Insulator/Superconducting Tunnel Junctions; 1.2.2.5
Superconducting Quantum Interference Devices (SQUIDs); 1.2.2.6
Phonon Structure; 1.2.2.7 Geometrical Resonances; 1.2.2.8 Scanning
Tunneling Microscopy; 1.2.2.9 Charging Effects; References; 1.2.3 Flux
Pinning; 1.2.3.1 Introduction; 1.2.3.2 Flux Lines, Flux Motion, and
Dissipation; 1.2.3.3 Sources of Flux Pinning; 1.2.3.4 Flux Pinning in
Technological Superconductors
1.2.3.5 Experimental Determination of Pinning Forces 1.2.3.6 Regimes
of Flux Motion; 1.2.3.7 Limitations on Core Pinning Efficacy; 1.2.3.8
Magnetic Pinning of Flux Lines; 1.2.3.9 Flux Pinning Anisotropy;
1.2.3.10 Maximum Entropy Treatment of Flux Pinning; References;
1.2.4 AC Losses and Numerical Modeling of Superconductors; 1.2.4.1
Introduction; 1.2.4.2 General Features of AC Loss Characteristics;
1.2.4.3 Measuring AC Losses; 1.2.4.3.1 Transport Losses; 1.2.4.3.2
Magnetization Losses; 1.2.4.3.3 Combination of Transport and
Magnetization AC Losses; 1.2.4.4 Computing AC Losses
1.2.4.4.1 Analytical Computation 1.2.4.4.2 Numerical Computation;
References; Chapter 2 Superconducting Materials; 2.1 Low-
Temperature Superconductors; 2.1.1 Metals, Alloys, and Intermetallic
Compounds; 2.1.1.1 Introduction; 2.1.1.2 Type I and Type II
Superconductor Elements and High-Field Alloys; 2.1.1.2.1 Fundamental
Superconductor Properties; 2.1.1.2.2 Elemental Superconductors and
Their Applications; 2.1.1.2.3 The Effect of Alloying; 2.1.1.3
Superconducting Intermetallic Compounds; 2.1.1.4 Pinning in Hard
Type II Superconductors; 2.1.1.5 Design Principles of Technical
Conductors
2.1.1.5.1 Electromagnetic Considerations

Sommario/riassunto

This wide-ranging presentation of applied superconductivity, from fundamentals and materials right up to the details of many applications, is an essential reference for physicists and engineers in academic research as well as in industry. Readers looking for a comprehensive overview on basic effects related to superconductivity and superconducting materials will expand their knowledge and understanding of both low and high T_c superconductors with respect to their application. Technology, preparation and characterization are covered for bulk, single crystals, thins films as well as electronic

2. Record Nr.	UNINA9910986995703321
Autore	Associazione di diritto pubblico comparato ed europeo
Titolo	Costituzionalismo, declinazioni del principio pacifista e conflitti armati : atti del secondo Seminario annuale dell'Associazione di diritto pubblico comparato ed europeo : Pescara, 29-30 giugno 2023 : 17. Seminario Atelier 4 luglio, G. G. Floridia / a cura di Rolando Tarchi, Gianluca Bellomo, Elisa Bertolini
Pubbl/distr/stampa	Napoli, : Editoriale scientifica, c2024
ISBN	979-12-235-0078-1
Descrizione fisica	465 p. ; 23 cm
Collana	Seminari / Associazione di diritto pubblico comparato ed europeo
Disciplina	342.0412
Locazione	FGBC
Collocazione	CONGR. C 113
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia