

1. Record Nr.	UNINA9910778781903321
Autore	Staff Institute of Medicine
Titolo	Research Briefings 1987 [[electronic resource]]
Pubbl/distr/stampa	Washington, : National Academies Press, 1987
ISBN	1-280-21505-4 9786610215058 0-309-59731-5 0-585-14365-X
Descrizione fisica	1 online resource (80 p.)
Altri autori (Persone)	StaffNational Academy of Engineering StaffNational Academy of Sciences
Disciplina	500
Soggetti	Electronic books. -- local Science and state -- United States Technology and state -- United States Physical Sciences & Mathematics Sciences - General
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	""Research Briefings 1987""; ""Copyright""; ""Preface""; ""Contents""; ""Report of the Research Briefing Panel on High-Temperature Superconductivity""; ""Research Briefing Panel on High-Temperature Superconductivity""; ""Report of the Research Briefing Panel on High-Temperature Superconductivity""; ""EXECUTIVE SUMMARY""; ""INTRODUCTION""; ""BACKGROUND""; ""RECENT DISCOVERIES""; ""CURRENT KNOWLEDGE OF THE NEW HIGH-TEMPERATURE SUPERCONDUCTORS""; ""Status of Theoretical Understanding""; ""Physical Properties Important for Technology""; ""Critical Temperature, Tc""; ""Upper Critical Magnetic Field, Hc2""; ""Critical Current Density, Jc""; ""Mechanical Properties""; ""Chemical Stability""; ""Radiation Effects""; ""Alternating Current Losses""; ""Synthesis and Fabrication""; ""New Superconducting Materials""; ""CURRENT FIELDS OF APPLICATION AND THE LIKELY IMPACT OF THE NEW MATERIALS""; ""High-Field and Large-Scale Applications""; ""Medical Applications""; ""Superconducting

Radiofrequency Cavities"; "Transportation"; "Electronic Applications"; "Computers and Logic Devices"; "Sensors and Other Applications"; "SQUIDS"; "Radiation Detectors"
"Analog Signal Processors""Magnetic Shielding"; "Voltage Standard"; "THE PRESENT MARKET FOR SUPERCONDUCTORS AND LIKELY CHANGES ASSOCIATED WITH THE NEW MATERIALS"; "THE GLOBAL PICTURE: SUPERCONDUCTIVITY CAPABILITIES IN OTHER COUNTRIES"; "Basic High-Temperature Superconducting Research"; "SUMMARY OF PANEL VIEWS AND RECOMMENDATIONS"; "Status of Science and Technology"; "The United States and the World Situation"; "Further Progress: The Next Steps"; "Scientific and Technological Objectives"; "Panel Recommendations"
"Report of the Research Briefing Panel on Chemical Processing of Materials and Devices for Information Storage and Handling""Report of the Research Briefing Panel on Chemical Processing of Materials and Devices for Information Storage and Handling"; "Report of the Research Briefing Panel on Chemical Processing of Materials and Devices for Information Storage and Handling"; "INTRODUCTION"; "CURRENT CHEMICAL MANUFACTURING PROCESSES"; "Microcircuits"; "Lightwave Media and Devices"; "Recording Media"; "INTERNATIONAL COMPETITIVE ASSESSMENT"; "Introduction"; "Microcircuits"
"Lightwave Technology""Recording Media"; "General Observations"; "GENERIC RESEARCH ISSUES"; "Introduction"; "Process Integration"; "Reactor Engineering and Design"; "Ultrapurification"; "Chemical Synthesis and Processing of Ceramic Materials"; "Deposition of Thin Films"; "Modeling and the Study of Chemical Dynamics"; "Environment and Safety"; "RECOMMENDATIONS"; "Report of the Research Briefing Panel on Order, Chaos, and Patterns: Aspects of Nonlinearity"; "Research Briefing Panel on Order, Chaos, and Patterns: Aspects of Nonlinearity"
"Report of the Research Briefing Panel on Order, Chaos, and Patterns: Aspects of Nonlinearity"
