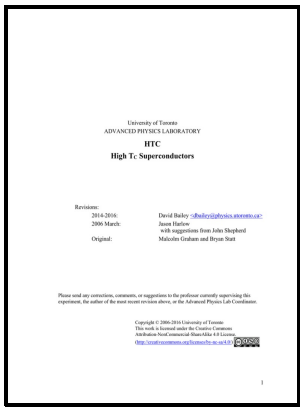
Experimental techniques for low-temperature measurements - cryostat design, material properties, and superconductor critical-current testing

Oxford University Press - [PDF] Experimental Techniques for Low


University of Toronto
ADVANCED PHYSICS LABORATORY
HTC
High Tc Superconductors
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2014-2016: David Bailey <dbailey@physics.utoronto.ca>
2006 March: Jason Harlow
with suggestions from John Shepherd
Original: Malcolm Graham and Bryan Statt
Please send any corrections, comments, or suggestions to the professor currently supervising this experiment, the author of the most recent revision above, or the Advanced Physics Lab Coordinator.

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Description: -
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Soviet Union -- Commerce -- United States -- Bibliography
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Superconductors
Low temperature research
Low temperatures -- Instruments
Low temperatures -- MeasurementExperimental techniques for low-temperature measurements - cryostat design, material properties, and superconductor critical-current testing
-Experimental techniques for low-temperature measurements - cryostat design, material properties, and superconductor critical-current testing
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However, what makes this book so extraordinary useful for me is the 134-page appendix in which the author has assembled a wellspring of sometimes hard-to-find data. Descriptions of experimental techniques are accessible for a reasonably technical audience who themselves may not be experts in mechanical and cryogenic engineering. Experimental techniques for low temperature measurements cryostat design material properties and superconductor critical current testing jack w ekin national institute of standards and technology boulder co usa oxford university press contents symbols and abbreviations xxiii.

Experimental Techniques for Low Temperature Measurements

After summarizing cooling methods, Part I provides core information in an accessible style on techniques for cryostat design and fabrication — including heat-transfer design, selection of materials, construction, wiring, and thermometry, accompanied by many graphs, data, and clear examples.

Experimental techniques for low

It's also not a recipe book for how to build a cryostat.

skynet2550.us.to: Experimental Techniques: Cryostat Design, Material Properties and Superconductor Critical

This book presents an integrated, step-by-step approach to the design and construction of low-temperature measurement apparatus. After summarizing cooling methods, Part I provides core information in an accessible style on techniques for cryostat design and fabrication — including heat-transfer design, selection of materials, construction, wiring, and thermometry, acc.

EXPERIMENTAL TECHNIQUES CRYOSTAT DESIGN MATERIAL PROPERTIES AND SUPERCONDUCTOR CRITICAL CURRENT TESTING

. Part II gives a practical user's perspective of sample mounting techniques and contact technology. The appendices are indispensable and provide a quick volume of useful data when working out designs.

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