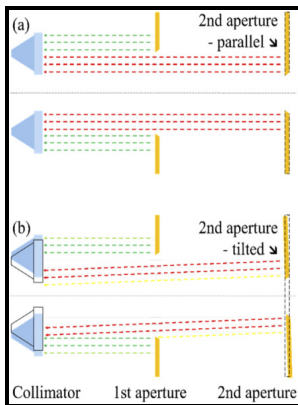


Experimental techniques for low-temperature measurements - cryostat design, material properties, and superconductor critical-current testing

Oxford University Press - Experimental Techniques for Low



Description: -

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 Experimental techniques for low-temperature measurements - cryostat design, material properties, and superconductor critical-current testing
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Notes: Includes bibliographical references and index.

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Part III applies the information from Parts I and II to the measurement and analysis of superconductor critical currents, including in-depth measurement techniques and the latest developments in data analysis and scaling theory.

ne-x.uni.rf.gd: 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. This is quite a specialized subject that will probably be of interest to a considerably smaller number of readers than Part II, which deals with the general field of electrical transport measurements.

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It's also not a recipe book for how to build a cryostat. I keep this by my desk at all times.

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. It is effectively two books in one: a textbook on cryostat design techniques and an appendix data handbook that provides materials-property data for carrying out that design. I work in a lab that relies heavily on vacuum and cryogenics, and this book is invaluable.

EXPERIMENTAL TECHNIQUES CRYOSTAT DESIGN MATERIAL PROPERTIES AND SUPERCONDUCTOR CRITICAL CURRENT TESTING

For the novice and cryogenic professional alike, the book includes numerous graphs of material properties covering the temperature range 4-300 K. Appendix 10 is a detailed review of critical-current analysis parameters.

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It is effectively two books in one: A textbook on cryostat design techniques and an appendix data handbook that provides materials-property data for carrying out that design. Part III presents in-depth techniques for the measurement and analysis of critical current, including the latest performance data for high- T_c superconductors and recent developments in scaling theory.

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