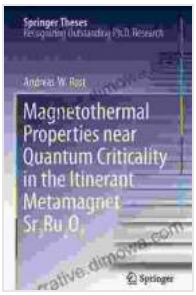
Magnetothermal Properties Near Quantum Criticality In The Itinerant Metamagnet



Magnetothermal Properties near Quantum Criticality in the Itinerant Metamagnet Sr3Ru2O7 (Springer Theses)

by Andreas W Rost

4.7 out of 5

Language	: English
File size	: 3704 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 396 pages
Lending	: Enabled
Hardcover	: 155 pages
Item Weight	: 15.3 ounces
Dimensions	: 6.14 x 0.44 x 9.21 inches

Welcome to the captivating realm of quantum criticality, where the interplay between magnetic and thermal phenomena unfolds in intriguing ways. In the book 'Magnetothermal Properties Near Quantum Criticality In The Itinerant Metamagnet', we embark on a journey to explore these fascinating phenomena, unlocking the secrets of quantum phase transitions.

Quantum criticality is a captivating state of matter that occurs when a material undergoes a quantum phase transition. At this critical point, the material exhibits remarkable properties that deviate from conventional behavior. One such property is the intricate interplay between magnetic and

thermal phenomena, giving rise to a wealth of intriguing magnetothermal effects.

In this book, we delve into the magnetothermal properties of itinerant metamagnets, a class of materials that exhibit a unique combination of magnetic and electronic properties. These materials undergo a quantum phase transition from a paramagnetic state to a ferromagnetic state, and the vicinity of this transition gives rise to a rich array of magnetothermal phenomena.

Through a combination of theoretical and experimental approaches, we explore the intricate interplay between magnetism and thermal properties near quantum criticality. We delve into the fundamental mechanisms that govern these phenomena, uncovering the delicate balance between magnetic interactions, electronic correlations, and thermal fluctuations.

The book presents a comprehensive overview of the current state of research in this field, providing a detailed examination of the magnetothermal properties of itinerant metamagnets. We cover a wide range of topics, including:

- to quantum criticality and itinerant metamagnets
- Theoretical frameworks for understanding magnetothermal properties
- Experimental techniques for probing magnetothermal phenomena
- Specific heat, magnetic susceptibility, and thermal expansion measurements
- Magnetic field and pressure effects on magnetothermal properties

- Applications of magnetothermal effects in quantum computing and sensing

'Magnetothermal Properties Near Quantum Criticality In The Itinerant Metamagnet' is an indispensable resource for researchers, students, and professionals in the fields of condensed matter physics, quantum materials, and magnetism. It provides a comprehensive and up-to-date account of the latest advances in this exciting field, offering a deeper understanding of the intricate interplay between magnetic and thermal phenomena near quantum criticality.

Join us on this captivating journey into the world of quantum criticality and unravel the secrets of magnetothermal properties. With 'Magnetothermal Properties Near Quantum Criticality In The Itinerant Metamagnet', you will gain a profound understanding of these fascinating phenomena, pushing the boundaries of our knowledge in this dynamic field.

Free Download your copy today and delve into the captivating world of quantum criticality!

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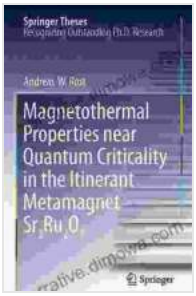

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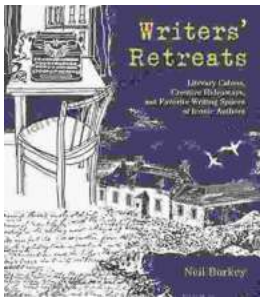

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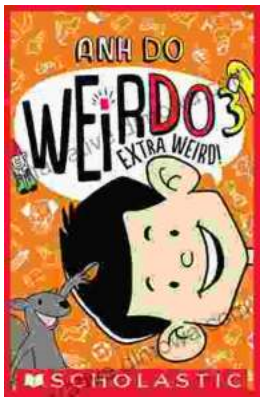

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