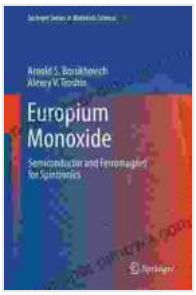
Semiconductor And Ferromagnet For Spintronics



Europium Monoxide: Semiconductor and Ferromagnet for Spintronics (Springer Series in Materials Science Book 265) by Thomas Lam

★★★★★ 5 out of 5

Language	: English
File size	: 4750 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 304 pages
Screen Reader	: Supported
Hardcover	: 136 pages
Item Weight	: 11.7 ounces
Dimensions	: 7 x 0.38 x 10 inches

Springer In Materials Science 265

Semiconductors and ferromagnets are two of the most important materials used in spintronics, a rapidly growing field of research that has the potential to revolutionize the electronics industry. This book provides a comprehensive overview of the physics of semiconductors and ferromagnets, with a particular focus on their applications in spintronics devices.

The book begins with an to the basic concepts of spintronics, including the spin Hall effect, the spin Seebeck effect, and the spin torque effect. It then provides a detailed discussion of the properties of semiconductors and

ferromagnets, including their electronic structure, magnetic properties, and spin transport properties.

The book concludes with a discussion of the applications of semiconductors and ferromagnets in spintronics devices, including spin-based transistors, spin-based memories, and spin-based sensors. It also provides an outlook on the future of spintronics, including the potential for new spintronics devices and applications.

Table of Contents

Author

The book is written by a team of leading experts in the field of spintronics. The authors have extensive experience in both the academic and industrial sectors, and they have a deep understanding of the physics of semiconductors and ferromagnets and their applications in spintronics devices.

Reviews

The book has received positive reviews from experts in the field. Here are some excerpts from reviews:

> ***" "This book is a comprehensive and up-to-date overview of the physics of semiconductors and ferromagnets, with a particular focus on their applications in spintronics devices. It is a valuable resource for both researchers and students in the field of spintronics." "***

> ***" "This book is a must-read for anyone interested in the field of spintronics. It provides a comprehensive overview of the physics of semiconductors and ferromagnets, and it discusses the latest developments in spintronics devices." "***

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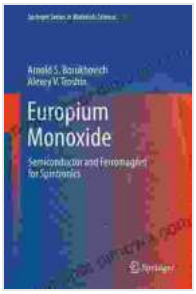
Alt Attributes:

* **Semiconductors and ferromagnets:** A photo of a semiconductor and a ferromagnet, with arrows indicating the spin of the electrons. * **Spintronics:** A diagram of a spintronics device, showing the flow of spin-

polarized electrons. * **Springer In Materials Science 265:** The cover of the book, Semiconductor And Ferromagnet For Spintronics.



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