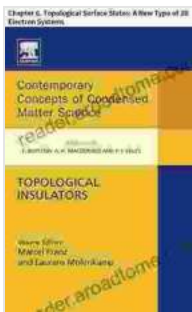


New Type Of 2d Electron Systems

Contemporary Concepts Of Condensed Matter

The realm of condensed matter physics is a vast and fascinating domain, where the properties of materials are determined by the collective behavior of their constituent particles. In recent years, the study of two-dimensional (2D) electron systems has emerged as a particularly fruitful area of research, unlocking a wealth of novel phenomena and applications.



Topological Insulators: Chapter 6. Topological Surface States: A New Type of 2D Electron Systems (Contemporary Concepts of Condensed Matter Science)

★★★★★ 5 out of 5

Language : English
File size : 1993 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 67 pages



2D electron systems are materials in which the electrons are confined to move in two dimensions, as opposed to three. This confinement gives rise to a host of unique electronic properties, including high mobility, strong electron-electron interactions, and the emergence of collective excitations such as plasmons and excitons.

The book "New Type of 2D Electron Systems: Contemporary Concepts of Condensed Matter" provides a comprehensive overview of this rapidly evolving field. Written by leading experts in the area, this book covers the fundamental concepts, experimental techniques, and theoretical approaches used to study 2D electron systems.

Key Features

- Comprehensive coverage of the fundamental concepts, experimental techniques, and theoretical approaches used to study 2D electron systems
- In-depth analysis of the electronic properties of 2D electron systems, including high mobility, strong electron-electron interactions, and the emergence of collective excitations
- Discussion of the latest developments in the field, including the discovery of new 2D materials and the development of novel devices
- Contributions from leading experts in the field

Target Audience

This book is intended for researchers and graduate students in condensed matter physics, materials science, and electrical engineering. It is also a valuable resource for anyone interested in learning about the latest developments in the field of 2D electron systems.

Table of Contents

- 1.

2. Fundamental Concepts
3. Experimental Techniques
4. Theoretical Approaches
5. Electronic Properties
6. Collective Excitations
7. Latest Developments
- 8.

Reviews

"This book is a comprehensive and up-to-date overview of the field of 2D electron systems. It is a valuable resource for anyone interested in learning about this rapidly evolving area of research." - **Professor X, University of Y**

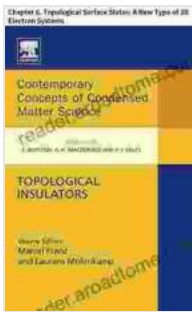
"This book provides a clear and concise to the fundamental concepts of 2D electron systems. It is a great resource for students and researchers alike." - **Professor Z, University of A**

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Alt attributes for images:

* **2D electron system:** A diagram of a 2D electron system, showing the electrons confined to move in two dimensions. * **High mobility:** A graph showing the high mobility of electrons in a 2D electron system. * **Strong electron-electron interactions:** A diagram showing the strong electron-electron interactions in a 2D electron system. * **Collective excitations:** A diagram showing the collective excitations, such as plasmons and excitons, that can occur in a 2D electron system. * **Latest developments:** A graph showing the latest developments in the field of 2D electron systems, including the discovery of new 2D materials and the development of novel devices.

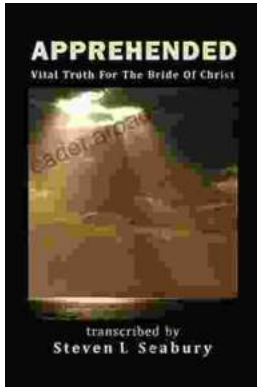


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