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Silicon



Germanium



Gallium Arsenide



Silicon Carbide



Photoresists



Dopants



Copper



Aluminum

Materials Used In Semiconductor Devices

Linda Gail Christie,John Christie

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Semiconductor Materials presents physico chemical electronic electrical elastic mechanical magnetic optical and other properties of a vast group of elemental binary and ternary inorganic semiconductors and their solid solutions It also discusses the properties of organic semiconductors Descriptions are given of the most commonly used semiconductor devices charge coupled devices field effect transistors unijunction transistors thyristors Zener and avalanche diodes and photodiodes and lasers The current trend of transitioning from silicon technology to gallium arsenide technology in field effect based electronic devices is a special feature that is also covered More than 300 figures and 100 tables highlight discussions in the text and more than 2 000 references guide you to further sources on specific topics Semiconductor Materials is a relatively compact book containing vast information on semiconductor material properties Readers can compare results of the property measurements that have been reported by different authors and critically compare the data using the reference information contained in the book Engineers who design and improve semiconductor devices researchers in physics and chemistry and students of materials science and electronics will find this a valuable guide *DDC Retrieval and Indexing Terminology*

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Table of Contents Materials Used In Semiconductor Devices

1. Understanding the eBook Materials Used In Semiconductor Devices
 - The Rise of Digital Reading Materials Used In Semiconductor Devices
 - Advantages of eBooks Over Traditional Books
2. Identifying Materials Used In Semiconductor Devices
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Materials Used In Semiconductor Devices
 - User-Friendly Interface
4. Exploring eBook Recommendations from Materials Used In Semiconductor Devices
 - Personalized Recommendations

- Materials Used In Semiconductor Devices User Reviews and Ratings
- Materials Used In Semiconductor Devices and Bestseller Lists

5. Accessing Materials Used In Semiconductor Devices Free and Paid eBooks

- Materials Used In Semiconductor Devices Public Domain eBooks
- Materials Used In Semiconductor Devices eBook Subscription Services
- Materials Used In Semiconductor Devices Budget-Friendly Options

6. Navigating Materials Used In Semiconductor Devices eBook Formats

- ePUB, PDF, MOBI, and More
- Materials Used In Semiconductor Devices Compatibility with Devices
- Materials Used In Semiconductor Devices Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Materials Used In Semiconductor Devices
- Highlighting and Note-Taking Materials Used In Semiconductor Devices
- Interactive Elements Materials Used In Semiconductor Devices

8. Staying Engaged with Materials Used In Semiconductor Devices

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Materials Used In Semiconductor Devices

9. Balancing eBooks and Physical Books Materials Used In Semiconductor Devices

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Materials Used In Semiconductor Devices

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Materials Used In Semiconductor Devices

- Setting Reading Goals Materials Used In Semiconductor Devices
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Materials Used In Semiconductor Devices

- Fact-Checking eBook Content of Materials Used In Semiconductor Devices

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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