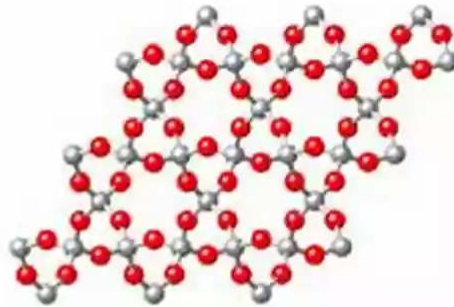


Discover the Fascinating World of Material Properties, Crystal Growth, and Devices: Springer's Innovative Approach in Materials Science

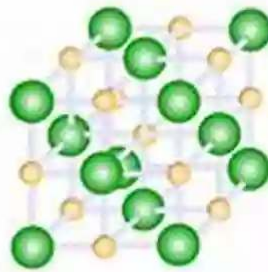
Quartz

- Silicon
- Oxygen



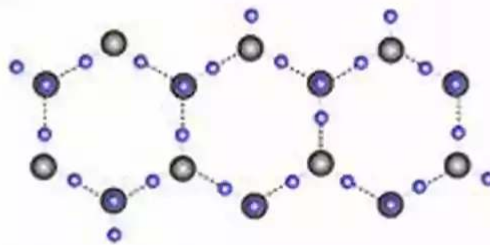
Salt Crystal

- Chlorine (Cl)
- Sodium (Na⁺)



Ice crystal

- Oxygen
- Hydrogen



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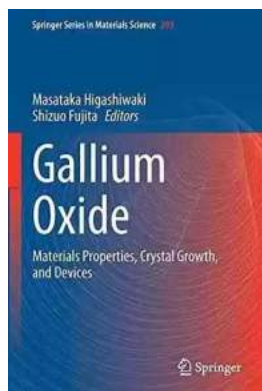
In the ever-evolving field of materials science, advancements in technology continue to shape our world. From nanotechnologies to renewable energy, the study of materials and their properties holds tremendous potential for scientific

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Materials, in their various forms, possess unique characteristics that dictate their behavior and applications. Understanding these properties is crucial for formulating new materials and optimizing existing ones for specific uses.

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Gallium Oxide: Materials Properties, Crystal Growth, and Devices (Springer Series in Materials Science Book 293)

by Val Dusek(1st ed. 2020 Edition, Kindle Edition)

★★★★★ 5 out of 5

Language	: English
File size	: 165722 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 1361 pages
Screen Reader	: Supported
Hardcover	: 649 pages
Item Weight	: 2.37 pounds
Dimensions	: 6.14 x 1.38 x 9.21 inches



Exploring Crystal Growth: Unlocking Endless Possibilities

Crystal growth is a fascinating phenomenon that involves the formation of highly organized and intricate crystal structures from atoms or molecules. This process

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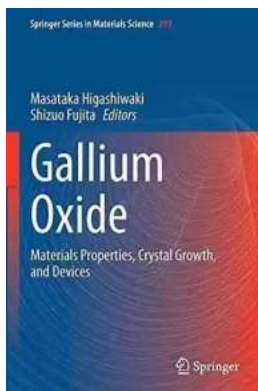
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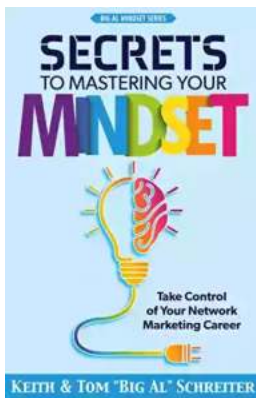
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This book provides comprehensive coverage of the new wide-bandgap semiconductor gallium oxide (Ga_2O_3). Ga_2O_3 has been attracting much attention due to its excellent materials properties. It features an extremely large bandgap of greater than 4.5 eV and availability of large-size, high-quality native substrates produced from melt-grown bulk single crystals. Ga_2O_3 is thus a rising star among ultra-wide-bandgap semiconductors and represents a key emerging research field for the worldwide semiconductor community.

Expert chapters cover physical properties, synthesis, and state-of-the-art applications, including materials properties, growth techniques of melt-grown bulk single crystals and epitaxial thin films, and many types of devices. The book is an essential resource for academic and industry readers who have an interest in, or plan to start, a new R&D project related to Ga_2O_3 .



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