



Amorphous Chalcogenide Semiconductors and Related Materials

By Keiji Tanaka, Koichi Shimakawa



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"Amorphous Chalcogenide Semiconductors and Glasses" describes developments in the science and technology of this class of materials. This book offers an up-to-date treatment of chalcogenide glasses and amorphous semiconductors from basic principles to applications while providing the reader with the necessary theoretical background to understanding the material properties technology of this class of materials. This book offers an up-to-date treatment of chalcogenide glasses and amorphous semiconductors from basic principles to applications while providing the reader with the necessary theoretical background to understanding the material properties. Chalcogenides form a special class of materials, which have one or more of the elements from the chalcogen group, Group VI in the Periodic Table (S, Se, or Te) as a constituent; the chalcogen is mixed with other elements to form various "new" compounds and alloys. Chalcogenides are noncrystalline solids because their structure is "amorphous" or "glassy". Such structures have totally different properties than crystalline solids. Chalcogenide glasses have a number of very interesting and useful properties, which have been already exploited in the commercialization of new devices.

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Bibliography

- Rank: #7593816 in Books
- Brand: Tanaka Keiji Shimakawa Koichi
- Published on: 2011-06-27
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .63" w x 6.14" l, 1.19 pounds
- Binding: Hardcover
- 242 pages

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Editorial Review

From the Back Cover

Amorphous Chalcogenide Semiconductors and Related Materials describes developments in the science and technology of this advancing class of materials. This book offers an up-to-date treatment of chalcogenide glasses, amorphous semiconductors, and photonics glasses from basic principles through to applications, while providing the reader with solid-state sciences for understanding the material property and technology. Chalcogenide glasses have a number of interesting and useful properties, which have been already exploited in the commercialization of new devices. The book describes them at length, while it also:

- Discusses technological applications such as nonlinear optical fibers, DVDs, and high resolution mammographic x-ray image detectors
- Includes coverage of noncrystalline semiconductors with glassy semiconductors

Amorphous or glassy chalcogenides are a kind of noncrystalline and thermodynamically quasi-stable solids. Such materials possess totally different properties than crystalline solids, and therefore warrant detailed discussion and description, which *Amorphous Chalcogenide Semiconductors and Related Materials* provides.

Users Review

From reader reviews:

Erich Arnold:

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