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## **Fundamental Physics Of Amorphous Semiconductors**

The Kyoto Summer Institute 1980 (KSI '80), devoted to "Fundamental Physics of Amorphous Semiconductors", was held at Research Institute for Fundamental Physics (RIFP), Kyoto University, from 8-11 September, 1980.

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Suggested Citation:"DEVICE PHYSICS."National Research Council. 1972. Fundamentals of Amorphous Semiconductors.Washington, DC: The National Academies Press. doi: 10 ...

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## **DEVICE PHYSICS | Fundamentals of Amorphous Semiconductors ...**

We review some of the fundamental concepts which have been introduced into the field of amorphous semiconductors by Professor Sir Nevill Mott. These include the  $8-N$  rule, variable range hopping, the Austin-Mott ac conductivity, the mobility edge, and the minimum metallic conductivity. We demonstrate that there are still severe problems, although there is no real alternative to Mott's concepts.

### **Fundamental concepts in the physics of amorphous ...**

Physics Amorphous Semiconductors. Kazuo Morigaki Physics Amorphous Semiconductors Kazuo Morigaki This is a useful textbook for graduate students in the fields of solid state physics and chemistry as well as electronic engineering. Presenting the fundamentals of amorphous semiconductors clearly, it will be

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essential

### **Physics Amorphous Semiconductors**

Abstract. The amorphous Group IV semiconductors are of technological significance and scientific importance. As an example of the former, amorphous Si has widespread use in thin-film transistors while, as an example of the latter, structural determinations of amorphous Ge are invaluable in assessing the validity of Continuous Random Network models.

### **Amorphous Group IV Semiconductors | SpringerLink**

The lack of MSs with strong magnetism above room temperature becomes, therefore, a bottleneck of the fundamental development of MS-based spintronic/electronic devices. Amorphous metal oxide...

### **A room-temperature magnetic semiconductor from a ...**

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About this Textbook. This fourth edition of the well-established Fundamentals of Semiconductors serves to fill the gap between a general solid-state physics textbook and research articles by providing detailed explanations of the electronic, vibrational, transport, and optical properties of semiconductors. The approach is physical and intuitive rather than formal and pedantic.

## **Fundamentals of Semiconductors - Physics and Materials**

...

Amorphous semiconductors. Some materials, when rapidly cooled to a glassy amorphous state, have semiconducting properties. These include B, Si, Ge, Se, and Te, and there are multiple theories to explain them. ... Fundamentals of Semiconductors : Physics and Materials Properties. Springer.

## **Semiconductor - Wikipedia**

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structure and bonding in amorphous solids 7-15; preparation 16-22; characterization 23-29; fundamental properties of amorphous semiconductors 30-58; device physics 59-74; technological setting 75-87; general observations and recommendations 88-94; references 95-112 ×

## **CHARACTERIZATION | Fundamentals of Amorphous ...**

Fundamental Physics of Amorphous Semiconductors : Proceedings of the Kyoto Summer Institute Kyoto, Japan, September 8-11, 1980. [F Yonezawa] -- The Kyoto Summer Institute 1980 (KSI '80), devoted to "Fundamental Physics of Amorphous Semiconductors", was held at Research Institute for Fundamental Physics (RIFP), Kyoto University, from 8-11 ...

## **Fundamental Physics of Amorphous Semiconductors ...**

Amorphous Solid Amorphous Semiconductor Band Tail Mobility Edge Antibonding State These keywords were added by machine

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and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

### **Theory of Electronic Properties of Amorphous Semiconductors**

The 28th International Conference on Amorphous and Nano-crystalline Semiconductors (ICANS) organized every two years, started in 1965 in Prague with the name of International Conference on Amorphous and liquid Semiconductors (ICALS) to focus on fundamental physics.

### **28th International Conference on Amorphous and ...**

It then delves into the fundamental physics of amorphous semiconductors relating to the device physics of amorphous silicon solar cells. Semiconductor physics. Book Tuchkevich, V M ; Frenkel, V Y. This text is a collection of papers devoted mainly to the results of the research work in the field of semiconductors.



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## **The physics and applications of amorphous semiconductors ...**

Presenting the fundamentals of amorphous semiconductors clearly, it will be essential reading for young scientists intending to develop new preparation techniques for more ideal amorphous semiconductors e.g. a-Si: H, to fabricate stable and efficient solar cells and thin film transistors and new artificial amorphous materials such as multilayers for quantum devices. A large portion is devoted to the latest developments of amorphous semiconductors including electronic properties of a-Si: H ...

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(b) a characterization of amorphous materials and the relation of physical properties to the characterization parameters, (c) a

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description of the fundamental properties of amorphous materials, (d) fruitful theoretical analyses of the disordered state, and (e) a discussion of the physics underlying amorphous semiconductor devices.

## **UNCLASSIFIED - DTIC**

Photovoltaic applications of III-V semiconductors are also mentioned. Indeed from a fundamental point of view, a solar cell can be considered as a semiconductor device (a diode) exposed to the sunlight. An introduction to the semiconductor physics is given, followed by the electron transport phenomena in a diode device.

## **1. Introduction - INTRODUCTION TO SEMICONDUCTOR PHYSICS ...**

Semiconductors are much more changed by disorder than metals or insulators, and appear to be the most suitable

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materials for fundamental work. Considerable exploratory work  
on amorphous and liquid semiconductors was done by the  
Leningrad School since the early fifties.

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