

## Solid State Electronic Devices

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### Solid State Electronic Devices

Solid-state electronics means semiconductor electronics; electronic equipment using semiconductor devices such as semiconductor diodes, transistors, and integrated circuits (ICs). The term is also used for devices in which semiconductor electronics which have no moving parts replace devices with moving parts,...

### Solid-state electronics - Wikipedia

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Solid-state device, electronic device in which electricity flows through solid semiconductor crystals (silicon, gallium arsenide, germanium) rather than through vacuum tubes. The first solid-state device was the “ cat's whisker” (1906), in which a fine wire was moved across a solid crystal to detect a radio signal.

### Solid-state device | electronics | Britannica

Ben G. Streetman is Dean Emeritus of the College of Engineering at The University of Texas at Austin. He is an Emeritus Professor of Electrical and Computer Engineering, where he held the Dula D. Cockrell Centennial Chair. He was the founding Director of the Microelectronics Research Center (1984—96).

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Elsevier Physics homepage. It is the aim of this journal to bring together in one publication outstanding papers reporting new and original work in the following areas: (1) applications of solid-state physics and technology to electronics and optoelectronics, including theory and device design with appropriate experimental backup;...

### Solid-State Electronics - Journal - Elsevier

□Solid-state electronic materials: - Conductors, semiconductors, and insulators, □A solid contains electrons, ions, and atoms, ~10<sup>23</sup> /cm<sup>3</sup>. ⇒too closely packed to be described by classical Newtonian mechanics.

### Solid-State Electronics

Lecture Series on Solid State Devices by Dr.S.Karmalkar, Department of Electrical Engineering, IIT Madras. ... Goji Food Solutions Solid State RF Cooking Demonstration - Duration: ...

### Lecture - 1 Introduction on Solid State Devices

Solid State Electronic Devices - EE3310 Class notes Introduction Homework Set 1 Streetman Chap 1 # 1,3,4,12. Chap. 2 # 2,5 Assigned 8/22/02 Due 8/29/02 Q: Why study electronic devices? A: They are the backbone of modern technology 1) Computers. 2) Scientific instruments. 3) Cars and airplanes (sensors and actuators).

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A modern and concise treatment of the solid state electronic devices that are fundamental to electronic systems and information technology is provided in this book. The main devices that comprise semiconductor integrated circuits are covered in a clear manner accessible to the wide range of scientific and engineering disciplines that are impacted by this technology.

### Solid-State Electronic Devices - An Introduction | Christo ...

Refer to Appendix III in the textbook. The semiconductor that has largest band gap is and its band gap is 3.6 eV. The semiconductor that has smallest band gap is and its band gap is 0.18 eV.

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