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Semiconductor Devices: Physics and Technology - Simon M ...

A semiconductor device is an electronic component that relies on the electronic properties of a semiconductor material (primarily silicon, germanium, and gallium arsenide, as well as organic semiconductors) for its function. Semiconductor devices have replaced vacuum tubes in most applications.

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... Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges. It begins with coverage of basic physics concepts, including the physics behind polar heterostructures and strained heterostructures. *Semiconductor Devices: Physics and Technology / Edition 3 ...* Grove A.S. New York: Wiley & Sons Inc., 1967. - 366 p. The purpose of this book is to provide an introduction to the physics and technology of planar silicon devices, i.e., devices made by the planar technology. To be sure, the physical principles underlying the fabrication and the operation of

these devices do not differ from those underlying the fabrication and the operation of devices made from other semiconductors by other technologies.

Semiconductor device - Wikipedia

Description The awaited revision of Semiconductor Devices: Physics and Technology offers more than 50% new or revised material that reflects a multitude of important discoveries and advances in device physics and integrated circuit processing. Download [PDF] Semiconductor Devices Physics And ... Semiconductor Devices Physics Technology Sze 2nd Ed Wiley 2002 (1)

Divided into three parts, it covers the basic properties of semiconductors and processes, emphasizing silicon and gallium arsenide; the physics and characteristics of semiconductor devices, bipolar and unipolar devices, and special microwave and photonic devices; and the latest processing technologies, from crystal growth to lithographic pattern transfer.