

Solid State Electronic Devices An Introduction

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Solid State Electronic Devices An

Examples of solid state electronic devices are the microprocessor chip, LED lamp, solar cell, charge coupled device (CCD) image sensor used in cameras, and semiconductor laser .

Solid-state electronics - Wikipedia

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

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The second edition of Solid State Electronic Devices serves as a textbook for an introductory course on solid state electronic devices. It provides a comprehensive coverage of the fundamental concepts of the subject, which will be useful to undergraduate and polytechnic students as well as practising engineers.

Solid State Electronic Devices by K. Bhattacharya and ...

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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Solid-State Electronics - Journal - Elsevier

Thyristors are a broad classification of bipolar-conducting semiconductor devices having four (or more) alternating N-P-N-P layers. Thyristors include: silicon controlled rectifier (SCR), TRIAC, gate turn off switch (GTO), silicon controlled switch (SCS), AC diode (DIAC), unijunction transistor (UJT), programmable unijunction transistor (PUT). Only the SCR is examined in this section; though ...

Thyristors | Solid-state Device Theory | Electronics Textbook

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