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Types of Semiconductor Devices and Applications

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Semiconductor device - Wikipedia

Core topics covered include semiconductors and semiconductor optical properties, high-speed circuits and transistors, detectors, sources, and modulators. It discusses in detail both active devices (heterostructure field-effect and bipolar transistors) and passive components (lumped and distributed) for high-speed electronic integrated circuits.

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HIGH-SPEED SEMICONDUCTOR PRODUCTS CATALOG

High Speed Semiconductor Devices .
Document Type and Number: United States Patent Application 20200161439 .
Kind Code: A1 . Abstract: Semiconductor devices and methods of forming the same are provided. In one embodiment, a semiconductor device according to the present disclosure includes a fin extending from a substrate, a gate structure over a ...

High Speed Semiconductor Devices - Taiwan Semiconductor ...

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(Web) Syllabus; Co-ordinated by : IIT Kanpur; Available from : 2009-12-31. Lec : 1; Modules / Lectures. High Speed Semiconductor Devices. High Speed Semiconductor Devices; Quantum Physics . Quantum Physics; Solution of Schrödinger Equation .

NPTEL :: Electronics & Communication Engineering - High

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High-speed operation of the memory device may be achieved because the junction capacitance of the MOS transistors formed in the peripheral circuit wells is reduced when the memory is operating. A...

US4233672A - High-speed semiconductor device - Google Patents

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photocouplers supports a wide range of communication standards, from medium-speed communications such as RS-232 to high-speed communications such as RS-485 and facsimile networks.

Photocouplers for High Speed Communication | Toshiba ...

Brennan and Brown, "Theory of Modern Electronic Semiconductor Devices", 2002 Sze and Ng," Physics of Semiconductor Devices", 3rd Ed., 2006
Other Suggested Books:

Solid State Devices - Sharif

High speed semiconductor devices is self-contained and features a discussion of future device tendency, an overview section, and an educational problem set. High speed semiconductor devices contain high performance semiconductor lasers, high speed tunable light sources and optical modulators made of compound substances such as InP.

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o v, United States Patent [191 [11,1
3,737,58 Susi {-451 June 5, 1973 54]
HIGH SPEED SEMICONDUCTOR
3,251,036 5/1966 Smith ..179 1s GF
SWITCHING CIRCUIT [75] Inventor: A.
Frederick Susi, Dedham, Mass. Primary
Examnfer Kathleen Claffy Assistant
Examiner-Kenneth D. Baugh I Asslgnnei
GTE y Incorporated, New Attorney-
Norman J. OMalley, Elmer J. Nealon York
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