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Power semiconductor controlled drives by G. K. Dubey, 1989, Prentice Hall edition, in English

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A study of power semiconductor controlled drives that contain dc, induction and synchronous motors. Discusses the dynamics of motor and load systems; open and closed-loop drives; and thyristor, power transistor, and GTO converters. Also reviews arc drives, brushless and commutatorless dc drives, and rectifier controlled dc drives. Annotation copyrighted by Book News, Inc., Portland, OR

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Dubey, Gopal K. This book presents power semiconductor controlled drives employing dc motors, induction motors, and synchronous motors. The dynamics of motor and load systems are covered. Open-loop and closed-loop drives are considered, and thyristor, power transistor, and GTO converters are discussed.

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### Power Semiconductor Drives (PSD) Pdf Notes - 2020 | SW

This chapter focuses on commonly used high-power semiconductor devices including silicon controlled rectifiers (SCRs), gate turn-offs (GTOs), gate commutated thyristors (GCTs), and insulated gate bipolar transistors (IGBTs) for medium voltage (MV) drives.

### High-Power Semiconductor Devices - High-Power Converters ...

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### Power semiconductor controlled drives (Book, 1989 ...

Power electronics is the application of solid-state electronics to the control and conversion of electric power. The first high power electronic devices were mercury-arc valves. In modern systems, the conversion is performed with semiconductor switching devices such as diodes, thyristors, and power transistors such as the power MOSFET and IGBT. In contrast to electronic systems concerned with transmission and processing of signals and

data, in power electronics substantial amounts of electrical

#### **Power electronics - Wikipedia**

A current-driven device is a device that requires a constant current drive for a period of time in order to initiate and/or remain in conduction. Two popular types of current controlled devices are the bipolar power transistor and the thyristor (SCRs). The SCR is mainly used in AC-DC converters such as controlled rectifiers where the input AC voltage helps to commutate (turn-off the devices by polarity reversal).

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International Journal of Power Electronics and Drive Systems (IJPEDS), p-ISSN: 2088-8694, e-ISSN 2722-256X is the official publication of the Institute of Advanced Engineering and Science (IAES). This is a SCOPUS indexed Journal, SJR Q2 on Electrical and Electronics Engineering, CiteScore: 1.49, SJR: 0.304, and SNIP: 1.088. The scope of the journal includes all issues in the field of Power ...

#### **International Journal of Power Electronics and Drive ...**

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The system which includes an electric machine, a power converter, based on semiconductor switches, and several control devices is known as an electric drive. Today about 60 % of the electric energy produced will be converted and used by electric drives of technological machines.

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