



Power Electronics and Motor Drives (The Industrial Electronics Handbook)

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Enhancing its value, this fully updated collection presents research and global trends as published in the *IEEE Transactions on Industrial Electronics Journal*, one of the largest and most respected publications in the field. **Power Electronics and Motor Drives** facilitates a necessary shift from low-power electronics to the high-power varieties used to control electromechanical systems and other industrial applications.

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- Focuses on special high-power semiconductor devices
- Describes various electrical machines and motors, their principles of operation, and their limitations
- Covers power conversion and the high-efficiency devices that perform the necessary switchover between AC and DC
- Explores very specialized electronic circuits for the efficient control of electric motors
- Details other applications of power electronics, aside from electric motors?including lighting, renewable energy conversion, and automotive electronics
- Addresses power electronics used in very-high-power electrical systems to transmit energy

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