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Autore	Sueker Keith H
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(Asynchronous) Machines; 8.4. NEMA Designs; 8.5. Frame Types; 8.6. Linear Motors; 9. Rectifiers and Converters; 9.1. Early Rectifiers; 9.2. Mercury Vapor Rectifiers; 9.3. Silicon Diodes--The Semiconductor Age; 9.4. Rectifier Circuits--Single-Phase; 9.5. Rectifier Circuits--Multiphase; 9.6. Commutation; 10. Phase Control; 10.1. The SCR; 10.2. Forward Drop; 10.3. SCR Circuits--AC Switches
10.4. SCR Motor Starters 10.5. SCR Converters; 10.6. Inversion; 10.7. Gate Drive Circuits; 10.8. Power to the Gates; 10.9. SCR Autotapchangers; 10.10. SCR DC Motor Drives; 10.11. SCR AC Motor Drives; 10.12. Cycloconverters; 11. Series and Parallel Operation; 11.1. Voltage Sharing; 11.2. Current Sharing; 11.3. Forced Sharing; 12. Pulsed Converters; 12.1. Protective Devices; 12.2. Transformers; 12.3. SCRs; 13. Switchmode Systems; 13.1. Pulse Width Modulation; 13.2. Choppers; 13.3. Boost Converters; 13.4. The 'H' Bridge; 13.5. High-Frequency Operation; 13.6. Harmonic Injection
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16.7. Extremely Low-Frequency Communications

Sommario/riassunto

This book serves as an invaluable reference to Power Electronics Design, covering the application of high-power semiconductor technology to large motor drives, power supplies, power conversion equipment, electric utility auxiliaries and numerous other applications. Design engineers, design drafters and technicians in the power electronics industry, as well as students studying power electronics in various contexts, will benefit from Keith Sueker's decades of experience in the industry. With this experience, the author has put the overall power electronics design process in the context o