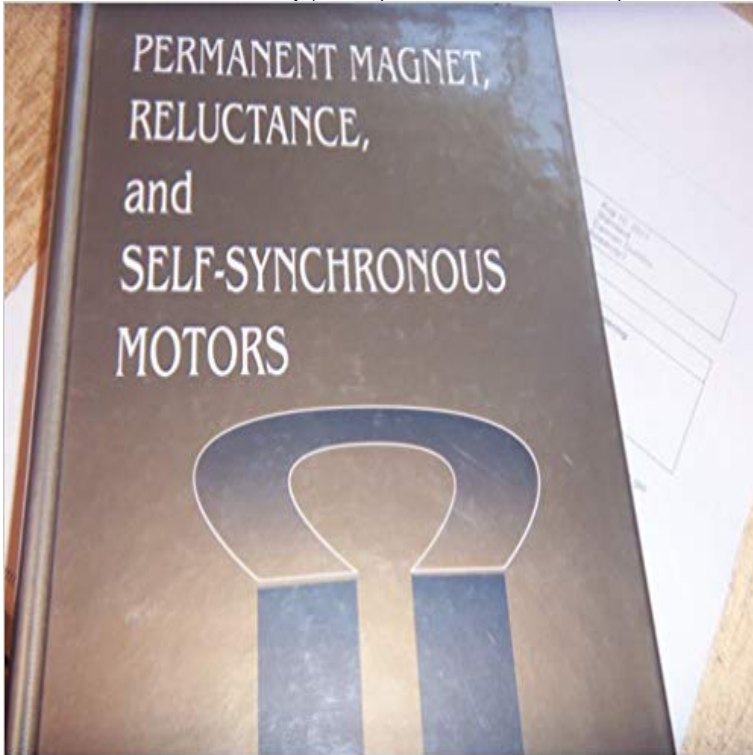


Permanent Magnet, Reluctance, and Self-Synchronous Motors



Permanent Magnet, Reluctance, and Self-Synchronous Motors discusses the theory, design, and control of permanent magnet materials. The book describes permanent magnets and their applications to electric machines as well as their performance characteristics and limitations. It presents the performance and calculations of PM commutator motors and an approach to their design. Permanent magnet synchronous motors, finite-element calculations, design methodologies, and rectangular and sinusoidal current control are discussed. It presents reluctance motors, their topologies and performance analyses as well as reluctance synchronous motors, with very large rotor saliency ratios, and their vector control. Numerical examples and data of practical interest are provided throughout the book. The book will be very useful to engineers involved in the design and manufacturing of permanent magnet and reluctance motors and high-performance drives, as well as electrical engineering students and educators.

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