



Electric Motors: Applications and Control

M.V. Deshpande

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This book provides a practical introduction to the various types of motors used in industrial drives. While selecting suitable motors for industrial applications, a good knowledge of the mechanical and electrical elements involved and a thorough understanding of the load and motor characteristics is essential. The book describes the load requirements of some typical drives, the type of motors used, their characteristics, duty cycles and specifications.

The starting, braking and speed control of dc motors, induction motors and synchronous motors are dealt with. The solid state speed control methods for dc and ac motors are discussed. The criteria for selection of motors for various industrial drives are explained in detail. Finally, electric energy conservation in the use of electric motors and drives is emphasized.

KEY FEATURES

- Provides balanced coverage of theory and practical applications of industrial motor drives and their problems.
- Includes numerous worked-out examples to demonstrate and establish the principles and their applications.
- Chapter-end problems include engineering applications of electric motors and electric drives.

This book is suitable for degree and diploma students of electrical engineering as well as for AMIE Part B students for courses in Electric Drives.

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