



Permanent Magnet Motor Technology: Design and Applications, Third Edition (Electrical and Computer Engineering)

Jacek F. Gieras

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The importance of permanent magnet (PM) motor technology and its impact on electromechanical drives has grown exponentially since the publication of the bestselling second edition. The PM brushless motor market has grown considerably faster than the overall motion control market. This rapid growth makes it essential for electrical and electromechanical engineers and students to stay up-to-date on developments in modern electrical motors and drives, including their control, simulation, and CAD.

Reflecting innovations in the development of PM motors for electromechanical drives, **Permanent Magnet Motor Technology: Design and Applications, Third Edition** demonstrates the construction of PM motor drives and supplies ready-to-implement solutions to common roadblocks along the way. This edition supplies fundamental equations and calculations for determining and evaluating system performance, efficiency, reliability, and cost. It explores modern computer-aided design of PM motors, including the finite element approach, and explains how to select PM motors to meet the specific requirements of electrical drives. The numerous examples, models, and diagrams provided in each chapter facilitate a lucid understanding of motor operations and characteristics.

This 3rd edition of a bestselling reference has been thoroughly revised to include:

- Chapters on high speed motors and micromotors
- Advances in permanent magnet motor technology
- Additional numerical examples and illustrations
- An increased effort to bridge the gap between theory and industrial applications
- Modified research results

The growing global trend toward energy conservation makes it quite possible that the era of the PM brushless motor drive is just around the corner. This reference book will give engineers, researchers, and graduate-level students the comprehensive understanding required to develop the breakthroughs that will push this exciting technology to the forefront.

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