



# Design of Small Electrical Machines

*By Essam S. Hamdi*

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## **Design of Small Electrical Machines** By Essam S. Hamdi

Designing electrical machines requires multi-disciplinary skills. Engineers must not only be expert in electromagnetic design, but also in selecting materials and choosing production techniques. Employing a range of examples, the author covers various design procedures from specification to performance prediction. Featuring:

- Selection and specification of components and materials
- Production techniques
- Focus on both the electrical and mechanical construction aspects
- Introduction to CAD
- Detailed exploration of thermal design
- Unified approach to permanent magnet and wound-field d.c. motor design
- Design of 50 Hz and 400 Hz induction motors
- Typical designs

This timely book highlights the latest advances in design techniques and materials. By presenting a self-contained and unified treatment, it will prove invaluable to both professional engineers and senior students.

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## **Design of Small Electrical Machines By Essam S. Hamdi Bibliography**

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## **Editorial Review**

From the Publisher

An applications-oriented text which concentrates on design techniques for this important, highly commercial field. Details all the latest advances in applications, design methods and materials. Uses a vast array of examples from the first specification to the prediction of performance. Coverage includes thermal design, 3-phase induction motors, permanent magnet machines and the design of 400 Hz motors. CAD is incorporated throughout and the book concludes with a review of several commercial CAD packages.

## **Users Review**

**From reader reviews:**

**Jose Miller:**

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