

## **Design of Small Electrical Machines**

Essam S. Hamdi



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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 selfcontained and unified treatment, it will prove invaluable to both professional engineers and senior students.

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