

Electric Drives, Third Edition

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The third edition of this bestselling textbook incorporates the latest technologies used to save energy and increase productivity, stability, and reliability. It includes new references to key research and development activities, adds nearly 120 new pages covering recent advances, and features two new chapters on advanced scalar control and multiphase electric machine drives. All solved numerical examples have been retained, and 10 MATLAB®–Simulink® programs remain online to ensure students gain a practical understanding of the subtleties involved in the operation of modern electric drives.

KEY FEATURES

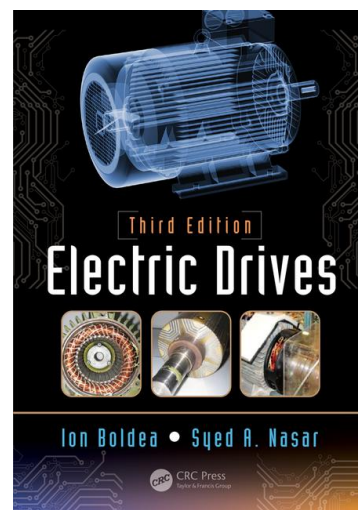
- Provides a practical understanding of the subtleties involved in the operation of modern electric drives
- Incorporates the latest technologies used to save energy and increase productivity, stability, and reliability
- Includes new references to key research and development activities that accurately reflect the current state of the art
- Adds nearly 120 new pages covering recent advances, as well as two new chapters on advanced scalar control and multiphase electric machine drives
- Retains all solved numerical examples, and the 10 MATLAB®–Simulink® programs remain online
- Offers an up-to-date synthesis of the basic and advanced control of electric drives, with ample material for a two-semester course at the university level

SELECTED CONTENTS

Energy Conversion in Electric Drives. Electric Motors for Drives. Power Electronic Converters for Drives. D.C. Brush Motors for Drives. Controlled Rectifier D.C. Brush Motor Drives. Chopper-Controlled D.C. Brush Motor Drives. Closed-Loop Motion Control in Electric Drives. Induction Motors for Drives. PWM Inverter-Fed Induction Motor Drives. Synchronous Motors for Drives. PM and Reluctance Synchronous Motor Drives. Switched Reluctance Motor Drives. Practical Issues with PWM Converter Motor Drives. Large-Power Drives. Control of Electric Generators. Scalar V/f and I-f Control of A.C. Motor Drives: An Overview. Multiphase Electric Machine Drives: An Overview.

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Catalog no. K27084

July 2016, 650 pp.

ISBN: 978-1-4987-4820-9

\$139.95 / £89.00

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1-800-634-7064 • 1-561-994-0555 • +44 (0) 1235 400 524



CRC Press
Taylor & Francis Group