



Electronic Variable Speed Drives

By Michael E. Brumbach

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Written with the maintenance technician in mind, *Electronic Variable Speed Drives, 2nd Edition* serves as a practical guide to understanding different types of drive circuits, including: brushless DC motor controllers, chopper circuits, variable voltage inverters, current source inverters, and flux vector drives. Emphasis throughout the book's fourteen chapters is on troubleshooting and maintenance, with entire chapters devoted to DC Drive troubleshooting and AC Drive troubleshooting. All explanations and theory are fundamental and presented in a clear, concise, no-nonsense manner, with very little use of formulas. This one-of-a-kind book also features a comprehensive glossary to aid in mastering terminology, as well as chapter-specific objectives and review questions designed to reinforce key points.

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Review

Preface Acknowledgments Introduction Chapter 1 DC Drive Fundamentals Chapter 2 Switching Amplifier Field Current Controllers Chapter 3 SCR Armature Voltage Controllers Chapter 4 Brushless DC Motor Controllers Chapter 5 Braking Chapter 6 Chopper Circuits Chapter 7 The Four-Quadrant Chopper Chapter 8 Troubleshooting DC Drives Chapter 9 Digital Regenerative DC Drive Chapter 10 AC Drive Fundamentals Chapter 11 Variable Voltage Inverters Chapter 12 Pulse Width Modulated Variable Voltage Inverters Chapter 13 Current Source Inverters Chapter 14 Flux Vector Drives Chapter 15 Troubleshooting Inverter Drives Chapter 16 Frequency Inverter

About the Author

Michael E. Brumbach is the Associate Dean of the Industrial and Engineering Technologies Division at York Technical College in Rock Hill, South Carolina. He holds an associate degree in electronics technology and is a member of the International Association of Electrical Inspectors (IAEI); the Instrumentation, Systems, and Automation Society (ISA); and the National Fire Protection Association (NFPA). Mr. Brumbach is also certified by the National Center for Construction Education and Research (NCCER) as a Core Curricula and Electrical Instructor. In addition to this book, Mr. Brumbach has authored INDUSTRIAL ELECTRICITY and INDUSTRIAL MAINTENANCE and has co-authored INDUSTRIAL MAINTENANCE.

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