



Electricity 4: AC/DC Motors, Controls, and Maintenance

By Walter N. Alerich, Jeff Keljik



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The fourth book in Delmar's Electricity 1-4 series, Electricity 4: AC/DC Motors, Controls and Maintenance, 7E introduces readers to DC and AC motors, as well as many types of manual, magnetic and electronic controls. Throughout this edition, motors are described in detail enabling the reader to develop a working knowledge of the operations, advantages and disadvantages of each type. A wide variety of controls are also explained to aid understanding, while discussion of AC motors and associated controls helps to develop an appreciation of control schemes applied to various applications of the motors. This edition features new and improved photos and diagrams to better enable readers to tie theory and practice together into real-life situations. Any references to the National Electrical Code have been updated, and some chapter material has also been rearranged to improve continuity. Specific objectives precede the introduction of each topic, while summaries and quiz items enable readers to measure their progress at the end of each chapter.

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Editorial Review

About the Author

Walter Alerich, BVE, MA, has an extensive background in electrical installation and education. As a journeyman wireman, he has had many years of experience in the practical applications of electrical work. Mr. Alerich has also served as an instructor, supervisor and administrator of training programs, and is well-aware of the need for effective instruction in this field. A former department head of the Electrical-Mechanical Department of Los Angeles Trade and Technical College, Mr. Alerich has written extensively on the subject of electricity and motor controls. He presently serves as an international specialist/consultant in the field of electrical trades, developing curricula and designing training facilities.

Jeff Keljik is a graduate of Dunwoody College of Technology and holds a Bachelor's degree from Metropolitan State University. He previously served as head of the electrical department at Dunwoody College of Technology and played an integral part in developing their Electrical Design and Management program. The recipient of both the 1993 Kraemer Fellowship Award for new technology education and an award for International Technical Teacher Education, Mr. Keljik also holds a Master Class A license and a Journeyman's Class A license, both from the State of Minnesota. He is an Executive Board Member for the North Central Electrical League and serves on the Education Committee for the Minnesota Electrical Association.

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