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overview of electrical drives. Jens Weidauer and Richard Messer describe the principles of electrical drives, their design, and application, through to complex automation solutions. In the process, they introduce the entire spectrum of drive solutions available and their main

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Applications. A special aspect is the combination of multiple drives to form a drive system, as well as the integration of drives into automation solutions. In simple and clear language, and supported with many diagrams, complex relationships are described and presented in an easy-to-

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understand way. The authors deliberately avoid a comprehensive mathematical treatment of their subject and instead focus on a coherent description of the active principles and relationships. As a result, the reader will be in a position to understand electrical drives as a whole and to

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solve drive-related problems in
everyday professional life.

The book provides a complete overview of the SIMATIC automation system and the TIA Portal with the engineering tool STEP 7. "Automating with SIMATIC" addresses all those

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testing with S7-PLCSIM. The next section describes the structure of the user program, which is followed by the illustration of the data communication between the controllers of the automation system as well as with the peripheral devices by use of the bus systems Profinet and Profibus. The

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book closes with a survey of the devices for operator control and process monitoring and their configuration software.

Industrial Energy Management:

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Principles and Applications provides an overall view of the energy management approach by following the stream of energy from factory boundaries to end users. All topics are examined from the point of view of plant users rather than from that of designers and only the basic concepts

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necessary to clarify the operation of the plants are outlined. Industrial Energy Management: Principles and Applications is written both as a textbook for university courses in engineering and as a work of reference for professionals in energy management. Readers are assumed

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This book provides extensive information about advanced control techniques in electric drives. Multiple control and estimation methods are studied for position and speed tracking in different drives. Artificial intelligence

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tools, such as fuzzy logic and neural networks, are used for specific applications using electric drives.

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complete set of technical scenarios to promote their efficient exploitation. It will also help readers understand how future buses will perform on specific roads and how the latest technologies can be integrated into existing fleets by proposing a methodology for evaluating the energy consumption for

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