

Programmable Logic Controllers: Hardware and Programming - Laboratory Manual

By Max Rabiee

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Programmable Logic Controllers begins by covering the hardware and architecture of the Allen-Bradley Small Logic Controller (SLC 500) series of PLCs. I/O devices and motor controls are also covered as well as commonly used number systems, such as binary and BCD. PLC programming is introduced by reviewing and creating examples of relay ladder diagrams. In the following chapter, students are given guidelines and examples for creating PLC ladder diagrams based on relay ladder diagrams. Throughout the rest of the textbook, the most common PLC functions are presented, and practical examples are given based on the Allen-Bradley RSLogix programming software.The Laboratory Manual provides LogixPro activities that help students practice and hone their PLC programming skills. Included in the textbook is a CD-ROM containing LogixPro simulation software. The software allows students to practice and develop their programming skills when and where they want. LogixPro is not a replacement for RSLogix, nor is there support for file exchange or communication with actual Allen-Bradley products. LogixPro provides a complete software-based training solution, eliminating the need for expensive PLC equipment.

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Editorial Review

About the Author
Max Rabiee earned his Ph.D. in electrical engineering from the University of Kentucky. He has taught electrical engineering (EE) and electrical/computer engineering technology (ECET) courses for over 20 years. Dr. Rabiee is a registered professional engineer (since 1988) who worked as a control engineer for several years. He was a senior electrical engineer for over four years in charge of medium and large industrial control projects. Dr. Rabiee is a member of the American Society of Engineering Education (ASEE), the Institute of Electrical and Electronics Engineers (IEEE), the National Association of Industrial Technology (NAIT), the Eta Kappa Nu Electrical Engineering Honor Society, and the Tau Beta Pi Engineering Honor Society.

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