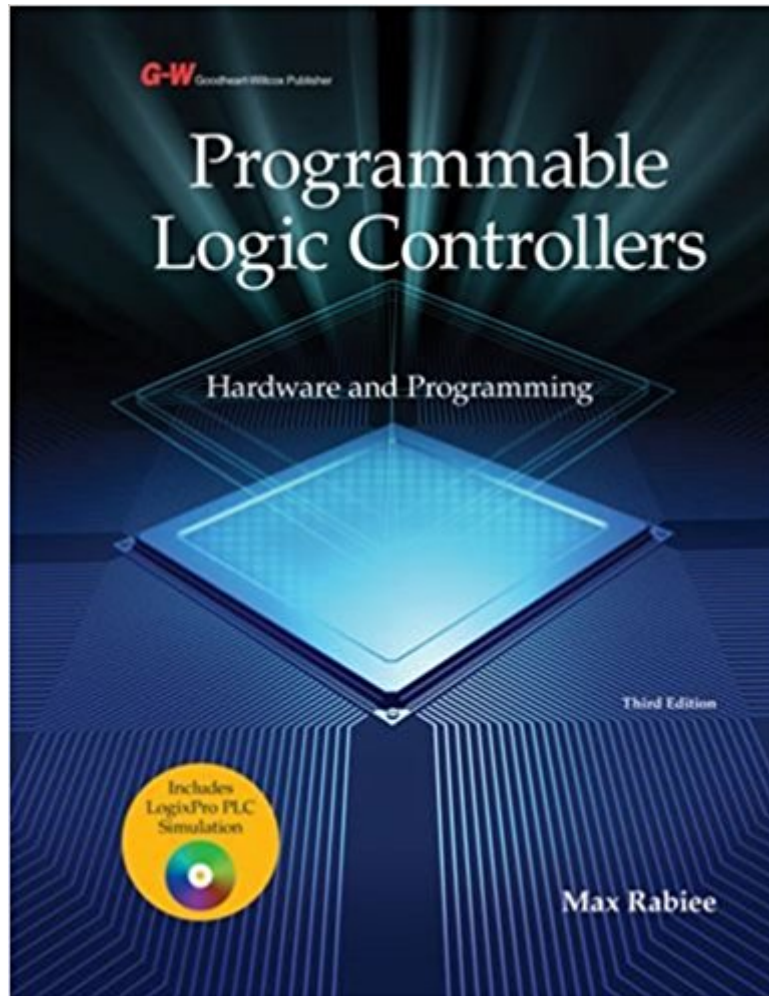




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# Programmable Logic Controllers: Hardware And Programming



## Synopsis

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.

## Book Information

Hardcover: 414 pages

Publisher: Goodheart-Willcox; 3 edition (August 6, 2012)

Language: English

ISBN-10: 1605259454

ISBN-13: 978-1605259451

Product Dimensions: 8 x 1 x 10 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 3.9 out of 5 stars 14 customer reviews

Best Sellers Rank: #159,944 in Books (See Top 100 in Books) #13 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Logic](#) #109 in [Books > Computers & Technology > Computer Science > Robotics](#) #111 in [Books > Business & Money > Job Hunting & Careers > Vocational Guidance](#)

## Customer Reviews

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.

This book is good for one who wants to know what is PLC, how it works and how to design / program it. PLC's specialties are you do not need to design hardware( circuit board ) and program it in assembly or C when you use it for most engineering control projects. What you need to do is to understand its graphical( ladder ) design language which is much easier to learn and use. Thus, you can save a lot of time in hardware/software development and only choose a suitable PLC device according to your control requirements and program it to do what you want it to do. I like this book because I feel it is good for beginner, even designer. But I also think the book can be even better if it can be written in a little more detailed each time when a new concept / functionality is introduced. The attached CD is helpful for reader to fully understand the book and build skill for real, complex designs.

Very good book. Although it says it often uses Allen-Bradley SLC500 series, this is actually a general textbook that doesn't really depend on any specific PLC product. This book is similar to Petruzella's book. Both books are excellent. I don't really have strong preference on any of those two. Both books have clear explanations, many figures, and many programming examples. I like Rabiee more, because the physical size of book is smaller.

the book is ok. If you need it for a class though and need the logix pro program, mine came with a cd with the full license on it. No trial cd, the full one. The book is ok teaching about plc's. If it's not required for a class though, get a different one.

I know I am going out on a limb here, but, since I didn't have the money for the class, I thought I would take a chance on the text book and the lab manual. I am glad I did. Max does a great job of keeping his explanations simple and easy to understand the principle he is trying to explain. Great book. I am now saving to take the class.

Brand new like it stated, and came with the CD that the book says it includes.

Did not include the CD-ROM

I needed this book for an intro to plc programming college course. Useful information in this book for introduction into the plc world.

Excellent book for beginner without any knowledge in PLC.

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