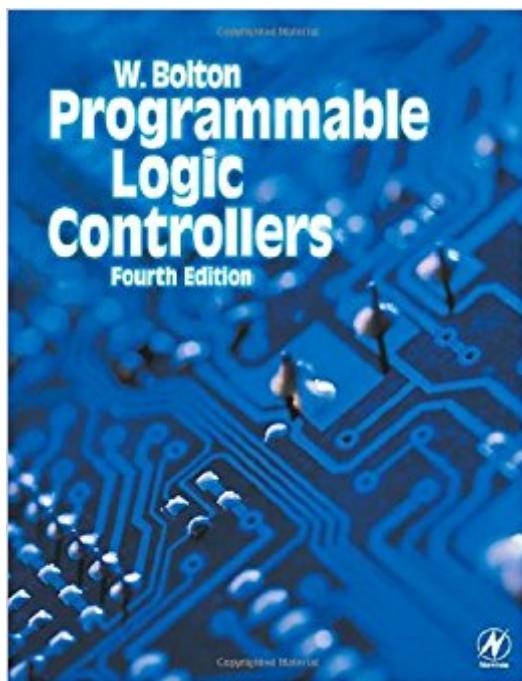


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# Programmable Logic Controllers, Fourth Edition



## Synopsis

This is the introduction to PLCs for which baffled students, technicians and managers have been waiting. In this straightforward, easy-to-read guide, Bill Bolton has kept the jargon to a minimum, considered all the programming methods in the standard IEC 1131-3 - in particular ladder programming, and presented the subject in a way that is not device specific to ensure maximum applicability to courses in electronics and control systems. Now in its fourth edition, this best-selling text has been expanded with increased coverage of industrial systems and PLCs and more consideration has been given to IEC 1131-3 and all the programming methods in the standard. The new edition brings the book fully up to date with the current developments in PLCs, describing new and important applications such as PLC use in communications (e.g. Ethernet – an extremely popular system), and safety – in particular proprietary emergency stop relays (now appearing in practically every PLC based system). The coverage of commonly used PLCs has been increased, including the ever popular Allen Bradley PLCs, making this book an essential source of information both for professionals wishing to update their knowledge, as well as students who require a straight forward introduction to this area of control engineering. Having read this book, readers will be able to:

- \* Identify the main design characteristics and internal architecture of PLCs
- \* Describe and identify the characteristics of commonly used input and output devices
- \* Explain the processing of inputs and outputs of PLCs
- \* Describe communication links involved with control systems
- \* Develop ladder programs for the logic functions AND, OR, NOT, NAND, NOT and XOR
- \* Develop functional block, instruction list, structured text and sequential function chart programs
- \* Develop programs using internal relays, timers, counters, shift registers, sequencers and data handling
- \* Identify safety issues with PLC systems
- \* Identify methods used for fault diagnosis, testing and debugging programs

Fully matched to the requirements of BTEC Higher Nationals, students are able to check their learning and understanding as they work through the text using the Problems section at the end of each chapter. Complete answers are provided in the back of the book.

\* Thoroughly practical introduction to PLC use and application - not device specific, ensuring relevance to a wide range of courses

\* New edition expanded with increased coverage of IEC 1131-3, industrial control scenarios and communications - an important aspect of PLC use

Problems included at the end of each chapter, with a complete set of answers given at the back of the book

## Book Information

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## **Customer Reviews**

Hydraulics with a few fundamentals is included, which is good for anyone interfacing with certain machine control applications. Examples aid the reader in understanding how some of these devices are used.-jeremy Pollard, Publisher of the Software User Online, Control Design, January 2007

A concise, thoroughly practical and accessible introduction to Programmable Logic Controllers

This book is quite informative but does contain some errors which should be corrected. A good proof reading is in order. I haven't finished reading it yet so I may be back to update this.

Thanks

Bolton does a great job with an intro to PLCs. The book is great for a comprehensive introduction to PLCs. I needed inexpensive, yet solid course material, for an adult ed course. This book has been perfect for providing easy to digest material for folks who need familiarity with PLCs.

I bought this book to help bring me up to speed on PLCs. I have several years working in electronics and other engineering disciplines, but almost no system control experience.I did learn a few things from this book and it was helpful. However, there are some serious mistakes in the book. There are several details that are simply wrong, which makes this book a poor choice for people with little to

no prior knowledge in the field.

This book was full of usefull information, and it was laid out well. I was just disapointed by the lack of coverage of Allen Bradley controllers, which are the most widely used controllers in my area.

This is a good overall textbook for the beginner in Progammable Controllers. I particularly liked the fact that all the major manufacturers are included.

This book covers all the basics you will need to know if you have no previous PLC experience. It is a bit "basic" for me because I have dealt with PLCs in the past. Still, it offers some good explanations of what the different programming terms mean. I would recommend it to someone who knows nothing about PLCs but it may be too "simple" for the journeyman PLC programmer.

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