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A programmable logic controller (PLC) or programmable controller is an industrial digital computer which has been ruggedized and adapted for the control of manufacturing processes, such as assembly lines, or robotic devices, or any activity that requires high reliability, ease of programming and process fault diagnosis.. PLCs can range from small modular devices with tens of inputs and outputs ...

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"Programmable logic controllers (PLCs) continue to evolve as new technologies are added to their capabilities. As PLC technology has advanced, so have programming languages and communications capabilities. Today's PLCs offer faster scan times, space efficient high-density input/ output systems, and special interfaces to allow non- traditional devices to be attached directly to the PLC. Now in its Sixth Edition, changes made to the content of the text have been made solely based on reviews from current instructors and include: material that should be added or deleted from chapters topics requiring more in-depth coverage increased integration of the ControlLogix platform of controllers chapter modifications require to meet current curriculum needs"--

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The Activities manual contains true/false, completion, matching, and multiple-choice questions for every chapter in the text. So that students get a better understanding of programmable logic controllers, the manual also includes a wide range of programming assignments and additional practice exercises.

A programmable logic controllers (PLC) is a real-time system optimized for use in severe conditions such as high/low temperatures or an environment with excessive electrical noise. This control technology is designed to have multiple interfaces (I/Os) to connect and control multiple mechatronic devices such as sensors and actuators. Programmable Logic Controllers, Fifth Edition, continues to be a straight forward, easy-to-read book that presents the principles of PLCs while not tying itself to one vendor or another. Extensive examples and chapter ending problems utilize several popular PLCs currently on the market highlighting understanding of fundamentals that can be used no matter the specific technology. Ladder programming is highlighted throughout with detailed coverage of design characteristics, development of functional blocks, instruction lists, and structured text. Methods for fault diagnosis, testing and debugging are also discussed. This edition has been enhanced with new material on I/Os, logic, and protocols and networking. For the UK audience only: This book is fully aligned with BTEC Higher National requirements. *New material on combinational logic, sequential logic, I/Os, and protocols and networking *More worked examples throughout with more chapter-ending problems *As always, the book is vendor agnostic allowing for general concepts and fundamentals to be taught and applied to several controllers

Updated to reflect recent industry developments, this edition features practical information on Rockwell Automation's SLC 500 family of PLCs and includes a no-nonsense introduction to RSLogix software and the new ControlLogix PLC. To assist readers in understanding key concepts, the art program has been modernized to include improved illustrations, current manufacturer-specific photos, and actual RSLogix software screens to visibly illustrate essential principles of PLC operation. New material has been added on ControlNet and DeviceNet, and a new chapter on program flow instructions includes updated references to the SLC 500, MicroLogix, and the PLC 5. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This edition of 'Programmable Logic Controllers' continues to provide an up-to-date introduction to all aspects of PLC programming, installation, and maintaining procedures. No previous knowledge of PLC systems or programming is assumed. Programmable Logic Controllers continues to provide an up-to-date introduction to all aspects of PLC programming, installation, and maintaining procedures. Improvements have been made to every chapter. The content, applied programming examples, instructor/student resources (including lesson PowerPoint presentations with simulated PLC program videos), test generator, LogixPro lab manual, and activities manual. With this edition, students and instructors also have access to McGraw-Hill Education's digital products - Connect and SmartBook, for the first time! McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students

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by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty

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