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Emphasizes the Allen Bradley SLC 500 PLC, covers all three Allen Bradley PLCs (PLC 5, SLC 500, and ControlLogix); as a result, it is the most comprehensive PLC book on the market. Numerous Allen Bradley manuals are included on the enclosed CD to support PLC experiments and problems that demonstrate the use of industrial reference material. The primary focus of this book is ladder logic programming, but chapters on switches, sensors, output actuators, process control, industrial networks, and three other PLC languages (Function Block Diagrams, Structure Text, and Sequential Function Charts) are also included. Operation and programming for two generations of Allen Bradley PLC software: rack/slot-based addressing in the PLC 5 and SLC 500 and tag-based addressing in ControlLogix system. Standard ladder logic building blocks are developed for PLC instructions in Chapters 4 through 11, 13, 15 and 16. Troubleshooting is integrated into each chapter. Descriptions of the five IEC 61131 programming languages with example problems for the four supported in Allen Bradley PLCs. This book describes the technology so that readers can learn PLCs with no previous experience in PLCs or discrete and analog system control.