1. Record Nr. UNINA9910784348703321 Autore Bolton W (William), <1933-> **Titolo** Programmable logic controllers [[electronic resource]]: an introduction //W. Bolton Oxford, [Eng.];; Burlingham, Mass.,: Newnes, 2006 Pubbl/distr/stampa **ISBN** 1-280-62957-6 9786610629572 0-08-046295-2 Edizione [3rd ed.] Descrizione fisica 1 online resource (302 p.) Disciplina 629.895 Logic circuits Soggetti Programmable logic devices Programmable controllers Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Previous ed.: 2000. Note generali Includes index. Nota di contenuto Cover: Programmable Logic Controllers: Contents: Preface: Changes from third edition; Aims; Structure of the book; 1 Programmable logic controllers; 1.1 Controllers; 1.1.1 Microprocessor controlled system; 1.1.2 The programmable logic controller; 1.2 Hardware; 1.3 Internal architecture; 1.3.1 The CPU; 1.3.2 The buses; 1.3.3 Memory; 1.3.4 Input/output unit; 1.3.5 Sourcing and sinking; 1.4 PLC systems; 1.4.1 Programming PLCs; Problems; 2 Input-output devices; 2.1 Input devices; 2.1.1 Mechanical switches; 2.1.2 Proximity switches; 2.1.3 Photoelectric sensors and switches: 2.1.4 Encoders 2.1.5 Temperature sensors2.1.6 Position/displacement sensors; 2.1.7 Strain gauges; 2.1.8 Pressure sensors; 2.1.9 Liquid level detector; 2.1.10 Fluid flow measurement; 2.1.11 Smart sensors; 2.2 Output devices; 2.2.1 Relay; 2.2.2 Directional control valves; 2.2.3 Motors;

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Sommario/riassunto

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 bee