

AUTÓMATAS PROGRAMABLES

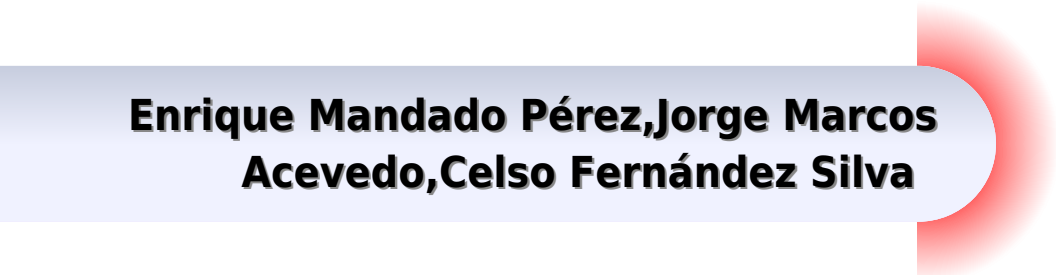
Josep Balcells
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Autmatas Programables Spanish Edition

**Enrique Mandado Pérez, Jorge Marcos
Acevedo, Celso Fernández Silva**



Autmatas Programables Spanish Edition:

Autómatas programables David Lasso Tárraga, José Moreno Gil, 1999 **Autómatas programables** ,1994

Autómatas Programables y Sistemas de Automatización Enrique Mandado Pérez, Jorge Marcos Acevedo, Celso Fernández Silva, 2009-09-15 Este libro pretende transmitir al lector los conceptos tecnológicos ligados a los autómatas programables y su utilización para implementar sistemas de automatización. Para ello los autores basándose en su experiencia en el diseño de sistemas de control y en la enseñanza de los mismos han organizado el libro en cinco partes además de capítulos para estructurar mejor los innumerables conceptos ligados a los sistemas de automatización. En el capítulo 1 de la parte 1 se estudian los conceptos generales asociados a los controladores lógicos y en la parte 2 formada por los capítulos 2 y 3 se describen el sistema de programación STEP7 y el sistema IEC1131-3 respectivamente. La parte 3 está formada por los capítulos 4, 5 y 6. El capítulo 4 analiza los principales conceptos de los sistemas electrónicos de control como introducción al capítulo 5 dedicado a los métodos de diseño de sistemas de control lógico y al capítulo 6 en el que se describen los sistemas de control de procesos continuos. La parte 4 formada por los capítulos 7, 8 y 9 está dedicada al entorno de los autómatas programables del que forman parte los sensores industriales, los interfaces de conexión con el proceso y el usuario y las Comunicaciones Industriales. La parte 5 incluye el capítulo 10 dedicado a estudiar la confiabilidad de los sistemas electrónicos de control en general y la de los autómatas programables en particular. Hay que resaltar también que para que el libro sea autocontenido se incluyen en los cinco apéndices. En el apéndice 1 se estudian los conceptos de las Comunicaciones Digitales necesarios para comprender las Comunicaciones Industriales. En los apéndices 3, 4 y 5 se describen respectivamente la red de sensores y actuadores AS i la red de control PROFIBUS y la red Ethernet Industrial Profinet. En el apéndice 5 se analizan los principales conceptos asociados a la garantía de funcionamiento o confiabilidad de los sistemas electrónicos en general necesarios para comprender los sistemas electrónicos de control seguros ante averías y de elevada disponibilidad. Hay que destacar además los apéndices 6 y 7 y el índice alfabético en castellano e inglés que tienen como objetivo concienciar al lector por una parte sobre la necesidad de conocer los términos ingleses y por otra de crear términos en español. Se pretende de esta forma contribuir a la mentalización de los técnicos de habla hispana sobre la importancia económica del idioma con el que hablamos en España y en Iberoamérica. Este libro no solo va dirigido a los técnicos que se quieren especializar en el diseño de instalaciones de control industrial sino también a los técnicos especializados en las diferentes áreas de la ingeniería como por ejemplo la mecánica, la generación y distribución de energía eléctrica, la química, etc. que necesitan conocer los fundamentos de los sistemas electrónicos de control y sus aplicaciones.

Autómatas programables David Lasso Tárraga, José Moreno Gil, 1999

Autómatas Programables Josep Balcells, José Luis Romeral, José Luis Romeral Martínez, 1997 Tanto el autómata como el ordenador son piezas de un conjunto superior que los engloba el CIM donde se combinan ordenadores, control numérico, robots y los propios autómatas. Por ello el presente libro no se limita a una descripción del autómata sino que presenta de forma

sistémica y ordenada todos los aspectos relacionados con él empezando con la elección del más adecuado hasta llegar a la comunicación e integración de sistemas complejos como los citados. La obra se estructura en cuatro partes: la primera se dedica a los conceptos generales de automatización, control industrial, diseño de automatismos lógicos y de automatismos con sensores analógicos; la segunda parte se dedica a la descripción propiamente dicha del autómata, arquitectura interna, ciclo de funcionamiento y control en tiempo real, configuración de sensores y actuadores, interfaces de entrada/salida, interfaces específicas y programación; la tercera parte se dedica al estudio de las redes de autómatas, comunicaciones digitales, redes industriales, ordenadores industriales compatibles PC, aplicaciones; finalmente la cuarta parte estudia el autómata en su entorno: instalación y mantenimiento. Cuatro anexos: álgebra de Boole, sistemas de numeración y operaciones binarias, autómatas y redes comerciales y normalización y niveles de protección completan el texto. Por su orientación práctica pero no exenta de rigor, la obra está destinada al colectivo de profesionales de la electrónica y la automatización y a estudiantes de carreras y escuelas técnicas relacionadas con esta rama.

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Automatas programables Josep I. Perat Benavides, José A. Sánchez López, 1997 **Autómatas programables, ELEE018PO.**, 2022
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