

AUTÓMATAS PROGRAMABLES Y SISTEMAS DE AUTOMATIZACIÓN



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Enrique Mandado Pérez
Jorge Marcos Acevedo
Celso Fernández Silva
José I. Armesto Quiroga

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SISTEMAS TÉCNICOS

Automatas Programables Y Sistemas De Automatizacion

Acceso Rapido

Shasha Hu



Automatas Programables Y Sistemas De Automatizacion Acceso Rapido:

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 común 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.

Automatización y telecontrol de sistemas de riego Antonio Ruiz Canales, José Miguel Molina Martínez, 2020-06-01 La demanda de recursos hídricos es cada vez mayor a escala local y mundial. A las competencias entre los tradicionales usos agrícolas y los crecientes usos urbanos e industriales se suma el deterioro creciente del medio ambiente. Una gestión adecuada de los recursos hídricos puede ayudar a paliar esta situación y es necesaria para un desarrollo sostenible. Una de las medidas para conseguir una gestión adecuada de los recursos hídricos

en la agricultura es la automatización y el telecontrol de los sistemas de riego. Se trata de registrar y repartir de un modo adecuado las cantidades de agua y fertilizantes que se manejan en riego utilizando diversas herramientas tecnológicas proporcionadas por la electrónica digital. La automatización y el telecontrol facilitan la gestión en el uso del agua de riego y la facturación por el volumen de agua consumido. En las redes de agua a presión de zonas regables la automatización y el telecontrol representan un porcentaje elevado de las inversiones que se realizan. Por otra parte existe una amplia oferta en el mercado que propone sistemas de telecontrol muy diferentes. En definitiva la automatización y el telecontrol de los sistemas de riego contribuyen de manera decisiva a la sostenibilidad de los recursos hídricos en un entorno donde las carencias y baja calidad del agua son cada día más crecientes. Este libro ofrece una visión general de las posibles aplicaciones de los sistemas de automatización y control en la gestión y manejo de regadíos e instalaciones de riego. A su vez se proporcionan los conocimientos básicos necesarios para que el lector pueda diseñar sistemas de adquisición de datos supervisión y control SCADA y hacer uso del telecontrol para automatizar las instalaciones de riego. Tomando como origen los fundamentos teóricos esta obra da un enfoque práctico de los temas tratados. Al mismo tiempo se presenta al lector una bibliografía actualizada para poder ampliar conocimientos. Esta edición viene avalada por un equipo de profesores de diferentes universidades españolas: Universidad Miguel Hernández de Elche, Universidad Politécnica de Cartagena, Universidad de Santiago de Compostela y Universidad de Castilla-La Mancha con líneas de investigación relacionadas con la temática del libro. Esta obra con un enfoque multidisciplinar va dirigida a los técnicos que trabajan en los diferentes campos del conocimiento que se presentan en cada capítulo. Los técnicos relacionados con el manejo y mantenimiento de las instalaciones de riego a presión a quienes se hace referencia en los capítulos del 1 al 8. En segundo lugar los técnicos en sistemas de automatización y control reflejado en los capítulos del 9 al 19. Por último se desarrollan entre los capítulos 20 al 22 los aspectos relacionados con las telecomunicaciones empleadas en estos sistemas. Por su contenido esta obra es una buena herramienta de consulta para diferentes grados de estudios: formación profesional, diplomatura, licenciatura y tercer ciclo.

Automatización de procesos mediante la guía GEMMA Ponsa Asensio, Pere, Ramon Vilanova Arbós, 2005-07-15. Durante años se han publicado diversas obras de carácter docente sobre la automatización centradas en el autómata programable y en las tareas de programación de casos prácticos. Este libro presenta una propuesta complementaria mediante el desarrollo sistemático de la guía GEMMA como metodología de uso general para cubrir aspectos de supervisión y automatización. Esta metodología permite el tratamiento de complejos problemas de automatización mediante una estructura modular ordenada. Además la guía GEMMA comporta el estudio de algunos aspectos tecnológicos como por ejemplo el diseño del panel de mando. Por tanto no se expone simplemente una metodología teórica sino que el lector utiliza los conocimientos previamente adquiridos de sensorización, interacción persona-máquina, mantenimiento y seguridad. El libro presenta situaciones básicas para comprender la guía GEMMA así como un caso práctico completo para ilustrar cómo esta guía puede ser una

herramienta de trabajo til para los profesionales de la automatizaci n *Mexico oil publication* ,1993 **Libros españoles**
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 Computerworld México ,1992 *Libros en venta en Hispanoamérica y España* ,1990 *Libros españoles en venta,*
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In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Automatas Programables Y Sistemas De Automatizacion Acceso Rapido**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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