Automating with SIMATIC: Controllers, Software, Programming, Data

By Hans Berger

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Totally Integrated Automation is the concept by means of which SIMATIC controls machines, manufacturing systems and technical processes. Taking the example of the SIMATIC S7 programmable controller, this book provides a comprehensive introduction to the architecture and operation of a state-of-the-art automation system. It also gives an insight into configuration and parameter setting for the controller and the distributed I/O. Communication via network connections is explained, along with a description of the available scope for operator control and monitoring of a plant.

The new engineering framework TIA Portal combines all the automation software tools in a single development environment. Inside the TIA Portal, SIMATIC STEP 7 Professional V11 is the comprehensive engineering package for SIMATIC controllers. As the central engineering tool, STEP 7 manages all the necessary tasks, supports programming in the IEC languages LAD, FBD, STL, S7-SCL and S7-GRAPH, and also contains S7-PLCSIM for offline tests.

As well as updating the previously-depicted components, this edition also presents new SIMATIC S7-1200 hardware components for PROFIBUS and PROFINET. In addition to the STEP 7 V5.5 engineering software, now STEP 7 Professional V11 is also described, complete with its applications inside TIA Portal.

The book is ideally suited to all those, who, despite little previous knowledge, wish to familiarize themselves with the topic of programmable logic controllers and the architecture and operation of automation systems.

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Review
"A book that gives a good overall picture of the Siemens Simatic S7 200/300/400. It may help engineers and technicians who are working with this product to understand many other configurations of Siemens automation products. Not a book if you are only interested in how to program S7 PLC." (George Yu, Australia; Amazon 10/2000)

From the Back Cover

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About the Author
HANS BERGER is a very experienced developer of automation systems and software and a most successful author of technical books. He has published more than 30 books on automation technology. Including all editions in English, German and Spanish, his total book record comprises more than 70 editions.

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