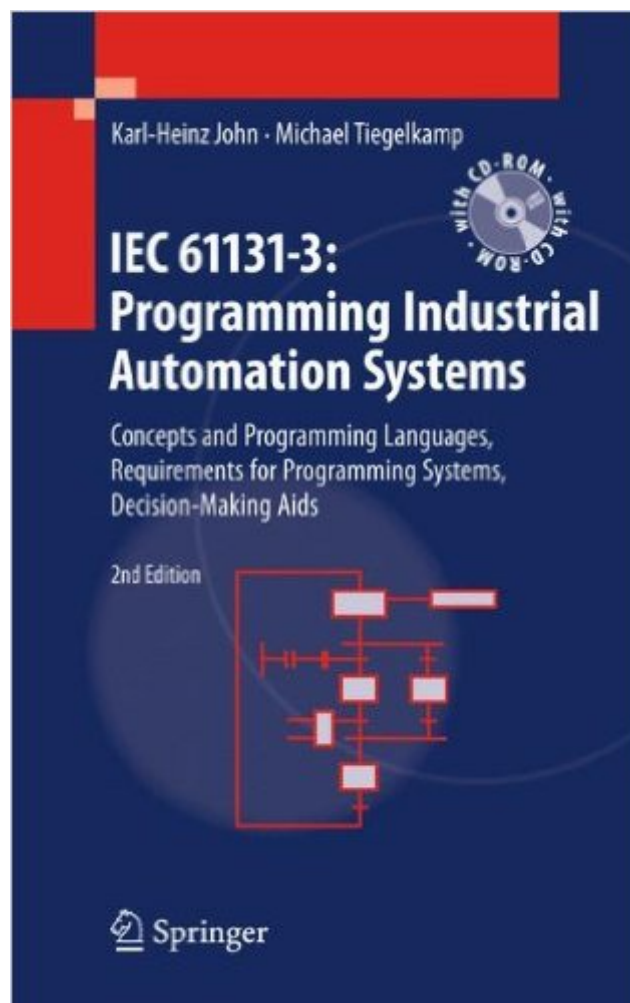# IEC 61131-3: Programming Industrial Automation Systems: Concepts And Programming Languages, Requirements For Programming Systems, Decision-Making Aids

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IEC 61131-3: Programming Industrial Automation Systems

Concepts and Programming Languages, Requirements for Programming Systems, Decision-Making Aids

2nd Edition

Springer

Synopsis

The rapid advances in performance and miniaturisation in microtechnology are constantly opening up new markets for the programmable logic controller (PLC). Specially designed controller hardware or PC-based controllers, extended by hardware and software with real-time capability, now control highly complex automation processes. This has been extended by the new subject of â œsafe-related controllersâ •, aimed at preventing injury by machines during the production process. The different types of PLC cover a wide task spectrum - ranging from small network node computers and distributed compact units right up to modular, fau- tolerant, high-performance PLCs. They differ in performance characteristics such as processing speed, networking ability or the selection of I/O modules they support. Throughout this book, the term PLC is used to refer to the technology as a whole, both hardware and software, and not merely to the hardware architecture. The IEC61131 programming languages can be used for programming classical PLCs, embedded controllers, industrial PCs and even standard PCs, if suitable hardware (e.g. fieldbus board) for connecting sensors and actors is available.

Book Information

Hardcover: 390 pages

Publisher: Springer; 2nd ed. 2010 edition (September 10, 2010)

Language: English

ISBN-10: 3642120148

ISBN-13: 978-3642120145

Product Dimensions: 6.4 x 1.1 x 9.4 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 starsÂ Â See all reviewsÂ (4 customer reviews)

Best Sellers Rank: #1,299,271 in Books (See Top 100 in Books)   #101 inÂ Books > Computers & Technology > Computer Science > AI & Machine Learning > Expert Systems   #267 inÂ Books > Medical Books > Medicine > Internal Medicine > Pathology > Diseases > AIDS & HIV   #594 inÂ Books > Computers & Technology > Computer Science > Systems Analysis & Design

Customer Reviews

Ya, it cost a lot, and it's worth it too !!! This is THE book if your programming the Schweitzer RTAC or similar device. Though, I should note the author assumes you have already been programming PLCs or using Pascal or C or something, it's not a "IEC 61131 for Dumbos book", but you don't need to be a real "programmer" to understand it at all. It's a big book, so don't expect to finish it in a

weekend, but it is a must-have for anyone doing IEC logic.

An excellent reference to 61131. Since moving to PLCs from pure embedded, I had a lot of questions that weren't being answered after hours of trolling. Within hours of reading, the fog has lifted and life has meaning again. Would have liked to have seen a dedicated section on high level language example comparisons, maybe next edition.

It is the only book on the market that covers the latest rules of IEC 61131. It covers everything in non systematic approach method and it is an expensive book too.

very boring context, and very difficult to be used as a reference book

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