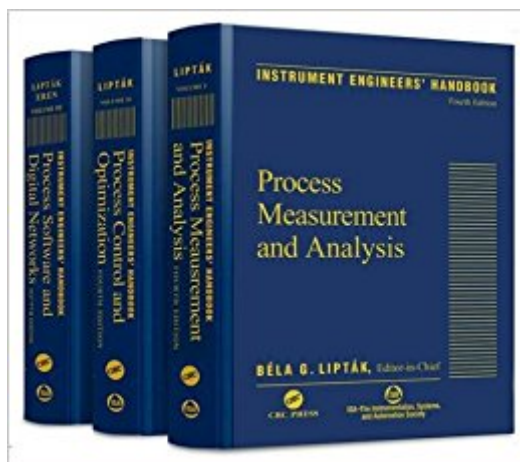


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Instrument Engineers Handbook, Fourth Edition, Three Volume Set



Synopsis

This set consists of: Instrument Engineers' Handbook, Fourth Edition, Volume One: Process Measurement and Analysis (Published June 2003, ISBN 9780849310836) Instrument Engineers' Handbook, Fourth Edition, Volume Two: Process Control and Optimization (Published September 2005, ISBN 9780849310812) Instrument Engineers' Handbook, Fourth Edition, Volume Three: Process Software and Digital Networks (Published August 2011, ISBN 9781439817766)

Unsurpassed in its coverage, usability, and authority, the latest edition to Béla G. Lipták's three-volume Instrument Engineers' Handbook continues to serve as the premier reference for instrument engineers around the world. The acclaimed "bible" of instrument engineering helps users select and implement hundreds of measurement and control instruments and analytical devices. It also aids in the design of cost-effective process control systems that optimize production and maximize safety. Retaining the format that made this work a perennial bestseller, the Fourth Edition continues the tradition of providing quick and easy access to highly practical information. The authors are practicing engineers, and their from-the-trenches advice has been repeatedly tested in real-life applications. This edition brings the content of its predecessors completely up to date, incorporates the developments of the last decade, and broadens the horizons of the work from an American to a global perspective. Volume One: Process Measurement and Analysis offers increased emphasis on installation and maintenance. Its coverage is now fully globalized with product descriptions from manufacturers around the world. It covers sensors, detectors, analyzers, and other measuring devices introduced since publication of the third edition. Volume Two: Process Control and Optimization is expanded to include descriptions of overseas manufacturer's products and concepts, model-based optimization in control theory, new major inventions, and innovations in control valves. It also devotes a full chapter to safety and includes more than 2000 graphs, figures, and tables. Volume Three: Process Software and Digital Networks provides an in-depth, state-of-the-art review of existing and evolving digital communications and control systems. While the book highlights the transportation of digital information by buses and networks, it also describes a variety of process-control software packages suited for plant optimization, maintenance, and safety related applications. It discusses plant design and modernization, safety and operations related logic systems, and the design of integrated workstations and control centers. The book concludes with an appendix that provides practical information such as bidders lists and addresses, steam tables, and materials selection for corrosive services. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

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Customer Reviews

“The editor of this masterpiece, Bela Liptak, is a longtime engineering consultant, a teacher at Yale, and a fellow of the ISA. He is clearly devoted to producing a useful reference. The book is replete with simple explicatory figures and diagrams; well-organized summaries with information on the costs, suppliers, ranges, and inaccuracies of the instruments covered; and practical tips on related subjects such as good instrument maintenance practices. Comprehensive, practical, and well-organized, this book is highly recommended for academic libraries and engineering company libraries. It can best serve as a teaching aid for students, or a reference manual for both new and experienced practicing engineers.”

—E-Streams, Vol. 7, No. 6, 2004 Praise for Previous Editions

“Those [contributors] eventually selected are without doubt among the best. Whether used as a textbook by inexperienced engineers, or as a quick reference book for the experienced engineer, this book looks set to continue to be the main reference to the instrument engineer for the next decade.”

—Alan Reese, Control & Instrumentation

“I have seen nothing with the scope of this handbook.”

—Roy V. Hughson, Chemical Engineering

“In our smaller universe of process control, Bela Liptak is a towering presence.”

—Terrence K. McMahon, Control

I've referred to these books often in past twenty years whenever faced with a tough instrumentation problem. Bela Liptak has never let me down. Clear, concise and easy to read, this three volume set is a "must-have" for an instrument engineer. Expensive? Yes. But this is an exhaustive library of

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