

Douglas H. Rothenberg



Alarm Management for Process Control

**A Best-Practice Guide for
Design, Implementation,
and Use of Industrial
Alarm Systems**

Second Edition



**MOMENTUM PRESS
ENGINEERING**

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To my dearest wife, constant companion, champion, and best friend, Katarzyna Gustaw, under whose sheltering roof and within whose protecting walls the first words to this book, nearly the final words, and much in between were written.

Książkę tą dedykuję mojemu najlepszemu przyjacielowi, drogiej żonie mojej Katarzynie Gustaw. Za jej to przyczyną i w jej przyjaznym domu pracowałem przez długi czas, rozpocząłem i zakończyłem pisanie.

About the Author

Douglas H. Rothenberg is the president and principal consultant of D-RoTH, Inc., a technology consulting company providing innovative technology and services for industry. His background includes nearly 20 years as an independent consultant to Fortune 1000 companies; over 20 years with Standard Oil, BP Oil, and BP Amoco, where he was responsible for new, state-of-the-art technology to support advanced manufacturing solutions; and 10 years in academia at Case Western Reserve University. Current areas of specialty with D-RoTH include alarm management, fit-for-purpose product design, and innovation development for new products and services. He has a world-renowned reputation in consulting, training, and services in alarm management.



Rothenberg has a PhD in systems and control engineering from Case Western Reserve University, an MS in electrical engineering from Case Institute of Technology, and a bachelor of electrical engineering degree from Virginia Polytechnic Institute. He has several patents in instrumentation and controls. He is active in the International Society of Automation (ISA; formerly Instrumentation, Systems, and Automation Society; and before that the Instrument Society of America) and a member of Sigma Xi, the Scientific Research Society. He is the recipient of 2005 Educator of the Year Award from Cleveland Technical Societies Council, Cleveland, Ohio. His early work helped shape the approach and content of the EEMUA Publication 191 *Alarm Management*. He is serving on the ISA18.2 Alarm Management Standards Committee and the American Petroleum Institute API 1167 Alarm Management Standards Committee.

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