



Control Systems Safety Evaluation and Reliability, Third Edition (ISA Resources for Measurement and Control)

By William M. Goble

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This book is intended to serve a wide variety of users. This updated third edition provides the detailed background necessary to understand how to meet important new safety regulations and reliability engineering topics. Professional control system designers will learn to properly evaluate control system components, various system architectures, how to better communicate with vendors, and how to increase accuracy of life-cycle cost estimates. The book is also an excellent text for college courses due to its detailed explanations, practical presentation, and discussion of the difference between theory and real-world application. It provides a basic foundation of material, including probability, statistics, reliability theory definitions, and basic reliability modeling techniques, as well as advanced topics relevant to safety instrumented and control systems. Each chapter contains exercises to assist the reader in applying the theories presented with their practical implementation.

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Editorial Review

About the Author

Dr. William M. Goble has more than 30 years of experience in analog and digital electronic circuit design, software development, engineering management and marketing. He is currently a founding member and Principal Partner with exida, a knowledge company focused on automation safety and reliability. He holds a B.S. in electrical engineering from Penn State and an M.S. in electrical engineering from Villanova. He has a Ph.D. from the Department of Mechanical Reliability at Eindhoven University of Technology in Eindhoven, Netherlands, and has done research in methods of modeling the safety and reliability of automation systems. He is a Professional Engineer in the state of Pennsylvania and holds a Certified Functional Safety Expert certificate. He is a well-known speaker and consultant and also develops and teaches courses on various reliability and safety engineering topics. He has written several books and has authored or co-authored many technical papers and magazine articles, primarily on software and hardware safety and reliability, and on quality improvement and quantitative modeling. He is a Fellow Member of the International Society of Automation (ISA) and is a member of IEEE, AIChE, and several international standards committees.

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