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He is the author of two books: Measurement and Control Basics, 4th Edition, (2007) and Programmable Controllers, 4th Edition, (2005), both published by ISA. Mr. Hughes received a B. S. in engineering physics from the University of Colorado, and an M.S. in control systems engineering from Colorado State University.

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process control. This fifth edition takes the same proven approach of previous editions. Each chapter begins with basic definitions and concepts that allow readers to become well versed in the principles necessary to understand the variables that affect process control systems. New features in the fifth edition include improved coverage of process control computers and industrial networks and a new chapter on liquid density measurement. Sections were also added on human machine interface (HMI), wireless devices and networks. The book includes solutions to exercises that make it more suitable for self-study.

Ideal for everyday use by project managers, process engineers, mechanical engineers and sales people, this handbook provides quick access to symbols, selection criteria, conversion guidelines, and more. This compact reference contains key information that is often needed on a regular basis. Due to its size and weight it is very portable, thus making it your first choice to take to meetings or remote locations. It is a mini version of more expensive, larger, detailed shelf-based handbooks such as ISA's PGS Series and the ISA Directory. Its affordable price makes this book perfect for companies who are just starting up or have limited budgets. Contents: Symbols Measurement Control Loops Control Valves Tables for Conversion, Corrosion, Resistance.

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.

The Instrument and Automation Engineers' Handbook (IAEH) is the #1 process automation handbook in the world. Volume one of the Fifth Edition, Measurement and Safety, covers safety sensors and the detectors of physical properties. Measurement and Safety is an invaluable resource that: Describes the detectors used in the measurement of process variables Offers application- and method-specific guidance for choosing the best measurement device Provides tables of detector capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas

products, their features, capabilities, and suppliers, including suppliers' web addresses Complete with 163 alphabetized chapters and a thorough index for quick access to specific information, Measurement and Safety is a must-have reference for instrument and automation engineers working in the chemical, oil/gas, pharmaceutical, pollution, energy, plastics, paper, wastewater, food, etc. industries. About the eBook The most important new feature of the IAEH, Fifth Edition is its availability as an eBook. The eBook provides the same content as the print edition, with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds of topics covered in the handbook. This feature includes a complete bidders' list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers.

This book provides a coherent and integrated approach to measurement and instrumentation designed for students following HND, HNC, BEng and BSc courses in mechanical engineering, electrical/electronic engineering, chemical engineering, instrumentation and control, and applied physics. As well as being an accessible introduction to this important and wide-ranging subject, Bolton's book also provides a comprehensive coverage which will be of use for reference and revision, and plenty of problems at the end of each chapter.

Following the boom in networking and data communications advancements throughout industry, this fourth edition of an ISA best-seller gives technical professionals who have little or no background in data communications the knowledge they need to understand, troubleshoot, and maintain both legacy and leading-edge systems. The text emphasizes practical functional aspects of common systems rather than design criteria. It includes a complete description of relevant terminology, standards, and protocols including EIA/TIA 232, 485, and IEEE 802. New material in this edition includes updated information on 100 Mbps and 1000 Mbps Ethernet, RIP and OSPF router technologies, OLE for Process Control (OPC), ActiveX, and .NET, virtual private networks, and more. A complete glossary and index make the book especially useful as a handy desk reference. The growth and application of data communications in the industrial environment as well as emerging technologies are discussed. Contents: Historical Overview, Communication Foundations, Physical Layer and Data Link Standards, Local Area Networks, Network Operating Systems and LAN Management, Industrial Networks and Applications, Wide Area Networks.

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Energy Production Systems Engineering presents IEEE, Electrical Apparatus Service Association (EASA), and International Electrotechnical Commission (IEC) standards of engineering systems and equipment in utility electric generation stations. Includes fundamental combustion reaction equations Provides methods for measuring radioactivity and exposure limits Includes IEEE, American Petroleum Institute (API), and National Electrical Manufacturers Association (NEMA) standards for motor applications Introduces the IEEE C37 series of standards, which describe the proper selections and applications of switchgear Describes how to use IEEE 80 to calculate the touch and step potential of a ground grid design This book enables engineers and students to acquire through study the pragmatic knowledge and skills in the field that could take years to acquire through experience alone.

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