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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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Ideal for classroom use or self-study, this newly updated best-selling book has provided thousands of students, technicians, engineers, and sales people with a practical introduction to the principles, technologies, and strategies used in industrial 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

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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

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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,

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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

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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.

This book is for anyone who works with boilers: utilities managers, power plant managers, control systems engineers, maintenance technicians or operators. The information deals primarily with water

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tube boilers with Induced Draft (ID) and Forced Draft (FD) fan(s) or boilers containing only FD fans. It can also apply to any fuel-fired steam generator. Other books on boiler control have been published; however, they do not cover engineering details on control systems and the setup of the various control functions. Boiler Control Systems Engineering provides specific examples of boiler control including configuration and tuning, valve sizing, and transmitter specifications. This expanded and updated second edition includes drum level compensation equations, additional P&ID drawings and examples of permissive startup and tripping logic for gas, oil, and coal fired boilers. It also covers different control schemes for

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furnace draft control. NFPA 85 Code 2007 control system requirements are included, with illustrated examples of coal fired boilers, as well as information on the latest ISA-77 series of standards.

Instrumentation and Process Control is a comprehensive resource that provides a technician-level approach to instrumentation used in process control. With an emphasis on common industrial applications, this textbook covers the four fundamental instrumentation measurements of temperature, pressure, level, and flow, in addition to position, humidity, moisture, and typical liquid and gas measuring instruments. Fundamental scientific

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principles, detailed illustrations, descriptive photographs, and concise text are used to present the following instrumentation topics: Process control and factory automation measurement instruments and applications; Control valves and other final elements; Digital communication systems and controllers; Overview of control strategies for process control; Safety systems and installation in hazardous locations and; Systems approach to integration of instruments in process control.

The discipline of instrumentation has grown appreciably in recent years because of advances in sensor technology and in the interconnectivity of

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The aim of Engineering Surveying has always been to impart and develop a clear understanding of the basic topics of the subject. The author has fully revised the book to make it the most up-to-date and relevant textbook available on the subject. The book also contains the latest information on trigonometric

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- * Details reading systems and satellite position fixing

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