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A practical introductory guide to the principles of process measurement and control. Written for those

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beginning a career in the instrumentation and control industry or those who need a refresher, the book will serve as a text or to supercede the mathematical treatment of

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control theory that will continue to be essential for a well-rounded understanding. The book will provide the reader with the ability to recognize problems

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concealed among a mass of data and provide minimal cost solutions, using available technology.

This text presents the subject of instrumentation and its use within

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measurement systems as an integrated and coherent subject. This edition has been thoroughly revised and expanded with new material and five new chapters. Features of this

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edition are: an integrated treatment of systematic and random errors, statistical data analysis and calibration procedures; inclusion of important recent

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developments, such as the use of fibre optics and instrumentation networks; an overview of measuring instruments and transducers; and a number of worked examples.

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The Instrument and Automation Engineers' Handbook (IAEH) is the #1 process automation handbook in the world. Volume one of the Fifth Edition, Measurement and

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Safety, covers safety sensors and the detectors of physical properties. Measurement and Safety is an invaluable resource that: Describes the detectors used in the

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measurement of process variables Offers application- and method-specific guidance for choosing the best measurement device Provides tables of

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capabilities, and suppliers, including suppliers' web addresses Complete with 163 alphabetized chapters and a thorough index for quick access to specific

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information, Measurement and Safety is a must-have reference for instrument and automation engineers working in the chemical, oil/gas, pharmaceutical, pollution, energy,

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Process Measurement and Analysis

Process measurement
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undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process,

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biochemical, pharmaceutical, petrochemical sectors).
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virtual instruments in
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and new methods for
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and safety. Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. Assessing the rapid evolution of

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evolving digital communications and control systems. While the book highlights the transportation of digital information by buses and networks, it also describes

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a variety of process-control software packages suited for plant optimization, maintenance, and safety related applications. It discusses plant design and modernization, safety and

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operations related logic systems, and the design of integrated workstations and control centers. The book concludes with an appendix that provides practical information such

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Practical Guides for

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Handbook, Volume Two

Supplement. Béla G. Lipták,

Editor

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Keeping mathematics to a minimum, the material meets the needs of the instrumentation engineer or technician who must

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safety sensors and the detectors of physical properties, while volume two, Analysis and Analyzers, describes the measurement of such analytical properties as composition. Complete with 245 alphabetized chapters and a

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thorough index for quick access to specific information, the IAEH, Fifth Edition is a must-have reference for instrument and automation engineers working in the chemical, oil/gas, pharmaceutical, pollution, energy,

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