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circuitry design steps. The reader will learn the physical fundamentals guiding the electrical and mechanical devices that allow for a modern automation and control system, which are widely comprised of

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computers, electronic instrumentation, communication loops, smart grids, and digital circuitry. It includes practical and technical data on electronic instrumentation with respect to efficiency, maximum power, and

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applications. Additionally, the text discusses fuzzy logic and neural networks and how they can be used in practice for electronic instrumentation of distributed generation, smart grids, and power systems.

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applications and on the status and future directions of Instrumentation, Control, and Automation (ICA) in the water and wastewater industry. The book starts by providing an overview of the status, the

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constraints and the future prospects for ICA in water and wastewater treatment and transport based on the survey responses of experts from 16 different countries. The text continues by presenting the need



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for dynamic modeling and simulation software to assist operations staff in developing effective instrumentation control strategies and to provide a training environment for the evaluation of such strategies.

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The book also covers the critical variables in system success; the use of an enterprise-wide computing that emphasizes the importance of strategic planning, performance measures, and human factors associated with

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the suggested implementation of applied technology; and the use of part-time unmanned operation at a large wastewater treatment plant. A functional approach based on the utility ' s water and wastewater functional

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requirements; the collection system monitoring and control; water distribution and control systems; dynamic modeling and simulation; and process control strategy and development are also considered. This book will

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be beneficial to biochemists,  
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