



Process Control Instrumentation Technology

8th Ed

By Curtis D. Johnson

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This text is designed to provide students with an understanding and appreciation of some of the essential concepts behind control system elements and operations, without the need of advanced math and theory. It covers the complex topics of process control, measurement, and instrumentation with sufficient rigor to allow applications-oriented design using basic mathematical skills. Extensive coverage, including both concept and design approaches, is provided on the topics such as sensors, analog and digital conditioning, final control elements, programmable logic controllers, analog and digital process controllers, process control networks, and control loop tuning. It also presents some of the practical details of how elements of a control system are designed and operated. This new edition includes expanded coverage of control system networks (Foundation Fieldbus) and digital control systems. Commensurate with the revolution in control systems with the growing use of computers and computer networks, coverage of computer-based controllers have been suitably upgraded. Problems and examples are modified to make them more practical and appropriate for modern technology. This book is eminently suitable for engineering courses in process control and instrumentation.

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