

instrumentation and control systems pdf

system or for the feedback control of the physical system . Any instrumentation system must include an input transducer (sensor), such as a strain gauge, whose response to a particular stimulus can be measured electrically. The other component that is generally present in modern instrumentation systems is a digital processor, such as a

INSTRUMENTATION AND CONTROL SYSTEMS

INSTRUMENTATION AND CONTROL TUTORIAL 2 " SENSORS AND PRIMARY TRANSDUCERS This tutorial provides an overview of instrument sensors used in process and automatic control. It is useful to anyone studying measurement systems and instrumentation but it is provided mainly in support of the EC module D227 " Control System Engineering. This

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temperature control system and equivalent block diagram 81 Figure 43. Types of oscillations 84 Figure 44. Basic logic symbols 85 ... Codes for safety-significant and safety-class instrumentation, control, and alarm

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operation of the control system. This book is directed toward process-control technology. 2.3 Discrete-State Control Systems This is a type of control system concerned with controlling a sequence of events rather than regulation or variation of individual variables. For example, the manufacture of paint might

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