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Other additional information in

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Besides the inclusion of a new chapter on Hazardous Areas and

Instrumentation(Chapter 15), various new sections have been added and

existing sections modified in the

following chapters: Chapter 3

Linearisation and Spline interpolation

Chapter 5 Classifications of

transducers, Hall effect,

Piezoresistivity, Surface acoustic

waves, Optical effects (This chapter

has been thoroughly modified)

Chapter 6 Proximity sensors Chapter

8 Hall effect and Saw transducers

Chapter 9 Proving ring, Prony brake,

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Tachometers Chapter 10 ITS-90, SAW

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Zero elevation, Level switches Chapter

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13 The section on ISFET has been modified substantially

Measurement and Instrumentation: Theory and Application, Second Edition, introduces undergraduate engineering students to measurement principles and the range of sensors and instruments used for measuring physical variables. This updated edition provides new coverage of the latest developments in measurement technologies, including smart sensors, intelligent instruments, microsensors, digital recorders, displays, and interfaces, also featuring chapters on data acquisition and signal processing with LabVIEW from Dr. Reza Langari. Written clearly and comprehensively, this text provides students and recently graduated engineers with the knowledge and tools to design and

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This title presents the general principles of instrumentation processes. It explains the theoretical analysis of physical phenomena used by standard sensors and transducers to transform a physical value into an electrical signal. The pre-processing of these signals through electronic circuits – amplification, signal filtering and analog-to-digital conversion – is then detailed, in order to provide useful basic information. Attention is then given to general complex systems. Topics covered include instrumentation and measurement chains, sensor modeling, digital signal processing and diagnostic methods and the concept of smart sensors, as well as microsystem design and applications. Numerous industrial examples

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