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Nota di contenuto	Cover; Frontmatter; Half Title Page; Title Page; Copyright; Table of Contents; Preface to the Third Edition; Preface to the Second Edition; Preface to the First Edition; List of Contributors; Introduction; Part 1: Mechanical Measurements; Chapter 1: Measurement of Flow; Chapter 2: Measurement of Viscosity; Chapter 3: Measurement of Length; Chapter 4: Measurement of Strain; Chapter 5: Measurement of Level and Volume; Chapter 6: Vibration; Chapter 7: Measurement of Force; Chapter 8: Measurement of Density; Chapter 9: Measurement of Pressure; Chapter 10: Measurement of Vacuum Chapter 11: Particle SizingChapter 12: Fiber Optics in Sensor Instrumentation; Chapter 13: Microprocessor-Based and Intelligent Transmitters; Part 2: Measurement of Temperature and Chemical Composition; Chapter 14: Temperature Measurement; Chapter 15: Chemical Analysis: Introduction; Chapter 16: Chemical Analysis: Spectroscopy; Chapter 17: Chemical Analysis: Electrochemical Techniques; Chapter 18: Chemical Analysis: Gas Analysis; Chapter 19: Chemical Analysis: Moisture Measurement; Part 3: Electrical and Radiation Measurements; Chapter 20: Electrical Measurements Chapter 21: Optical MeasurementsChapter 22: Nuclear Instrumentation Technology; Chapter 23: Measurements Employing Nuclear Techniques; Chapter 24: Non-Destructive Testing; Chapter 25: Noise Measurement;

Part 4: Instrumentation Systems; Chapter 26: Design and Construction of Instruments; Chapter 27: Instrument Installation and Commissioning; Chapter 28: Sampling; Chapter 29: Telemetry; Chapter 30: Display and Recording; Chapter 31: Pneumatic Instrumentation; Chapter 32: Reliability in Instrumentation and Control; Chapter 33: Safety; Chapter 34: History of Instrumentation; Chapter 35: EMC Part 5: Further Scientific and Technical Information Chapter 36: Trigonometric Functions and General Formulae; Chapter 37: Statistics; Chapter 38: Quantities and Units; Chapter 39: Electricity; Chapter 40: Light; Chapter 41: Radiation; Chapter 42: Connectors; Chapter 43: Noise and Communication; Backmatter; Appendix A: General Instrumentation Books; Appendix B: Professional Societies and Associations; Appendix C: The Institute of Measurement and Control; Appendix D: The Instrument Society of America; Index; Back Cover

Sommario/riassunto

Instrumentation is not a clearly defined subject, having a 'fuzzy' boundary with a number of other disciplines. Often categorized as either 'techniques' or 'applications' this book addresses the various applications that may be needed with reference to the practical techniques that are available for the instrumentation or measurement of a specific physical quantity or quality. This makes it of direct interest to anyone working in the process, control and instrumentation fields where these measurements are essential. The latest edition of the Instrumentation Reference Book is a compreh
