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Nota di contenuto	Sensors Applications Volume 4 Sensors for Automotive Applications; Preface to the Series; Foreword; Contents; Abbreviations; List of Contributors; 1 Overview; 1.1 Introduction; 2 Automotive Sensor Market; 2.1 Introduction; 2.2 Automotive Sensor Market Overview; 2.3 Incentives and Current Trends in Automotive Sensors; 2.4 Regional Trends; 2.5 Market for Individual Sensors; 2.6 Outlook: New Sensors and Market Opportunities; 2.7 Summary; 2.8 References; 3 Measurement Principles: Basic Considerations about Sensing; 3.1 Basic Considerations and Definitions 3.2 Classification of Sensor-Input Signals3.3 Signal Conversion and Signal Extraction (Signal Path); 3.4 Sensor Output Signals; 3.5 Summary and Outlook; 3.6 References; 4 Design Methodology; 4.1 Methodology; 4.2 CAD Tools for MEMS; 5 Technology; 5.1 Bulk Micromachining; 5.2 Integrated Surface Micromachining Technology; 5.3 Surface Micromachining - Discrete; 5.4 Thin Films on Steel; 5.5 Thin Films on Silicon; 5.6 Ceramic Materials and Technologies for Exhaust Gas Sensors; 5.7 Magnetic-Field Sensor Technologies; 5.8 Assembly, Packaging; 5.9 Reliability; 5.10 Test of Automotive Sensors 6 Evaluation Circuits6.1 Capacitive Evaluation Circuits; 6.2 Resistive Evaluation Circuits; 7 Applications; 7.1 Accelerometers for Automotive Applications; 7.2 Yaw-Rate Sensors; 7.3 Pressure Sensors; 7.4 High-Pressure Sensors; 7.5 Temperature Sensors; 7.6 Mass-Flow Sensors; 7.7 Radar Sensors; 7.8 Video Sensors; 7.9 Wheel-Speed Sensors; 7.10 Cam and Crank-Angle Sensors; 7.11 Steering-Angle Sensors; 7.12 Force and Torque Sensors; 7.13 Light Sensors; 7.14 Rain Sensors; 7.15 Chemical Sensors for Oxygen Detection and Air/Fuel Ratio Control; 7.16 Chemical Sensors for Emission Control 7.17 Chemical Sensors for Air Quality7.18 Chemical Sensors for Liquid Media; 7.19 Electric-Current Sensors; 7.20 Tire-Pressure Sensors; Subject Index
Sommario/riassunto	An international team of experts from the leading companies in this field gives a detailed picture of existing as well as future applications. They discuss in detail current technologies, design and construction concepts, market considerations and commercial developments. Topics covered include vehicle safety, fuel consumption, air conditioning, emergency control, traffic control systems, and electronic guidance using radar and video. Meeting the growing need for comprehensive information on the capabilities, potentials and limitations of modern sensor systems, Sensors Applications is a book