1. Record Nr. UNINA9910554057003321

Titolo	2021 IEEE/ACM Third International Workshop on Deep Learning for Testing and Testing for Deep Learning (DeepTest)
Pubbl/distr/stampa	IEEE
ISBN	1-66544-565-3
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9911020252103321

Titolo	Sensors for automotive applications / / edited by J. Marek ... [et al.] ; [with a foreword by H.-J. Queisser]
Pubbl/distr/stampa	Weinheim ; ; [Cambridge], : Wiley-VCH, c2003
ISBN	9786610520220 9781280520228 1280520221 9783527605071 352760507X 9783527601424 3527601422
Edizione	[1st ed.]
Descrizione fisica	1 online resource (584 p.)
Collana	Sensors applications ; ; v. 4
Altri autori (Persone)	MarekJiri, ing.
Disciplina	629.2/7
Soggetti	Automobiles - Automatic control Automotive sensors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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