

for Biomedical Robotics Applications

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Sensors and Measurement Techniques for Chemical Gas Lasers

Eds. Sensors & Signals

Non-Dispersive Infrared Gas Measurement

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Magnetically Soft Wires with Tunable

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Sergey Y. Yurish

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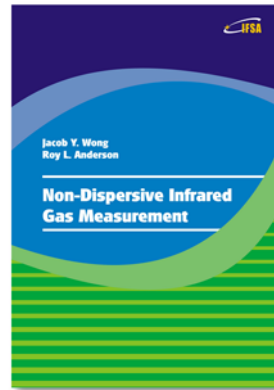


Digital Sensors and Sensor Systems: Practical Design

Sergey Y. Yurish,
Excelera S.L., Spain

The goal of this book is to help the practitioners achieve the best metrological and technical performances of digital sensors and sensor systems at low cost, and significantly to reduce the time-to-market. The book will greatly benefit undergraduate and at PhD students, engineers, scientists and researchers in both industry and academia. It is especially suited for engineers, working for OEM electronics market, sensor industry, and using commercial-off-the-shelf components, as well as anyone facing new challenges in technologies, and those involved in the design and creation of new digital sensors and sensor systems, including smart and/or intelligent sensors.

Hardcover, 2011, 420 pages, ISBN: 978-84-616-0652-8, €135.00
e-Book, Acrobat (pdf), e-ISBN: 978-84-615-6957-1, €110.00



Non-Dispersive Infrared Gas Measurement

Jacob Y. Wong
and Roy L. Anderson,
Airware, Inc., USA

Written by experts in the field, this book begins with a brief survey of various gas measurement techniques and continues with fundamental aspects and cutting-edge progress in NDIR gas sensors in their historical development. Providing sufficient background information and details, the Non-Dispersive Infrared Gas Measurement is an excellent resource for advanced level undergraduate and graduate students as well as researchers, instrumentation engineers, applied physicists, chemists, material scientists in gas, chemical, biological, and medical sensors to have a comprehensive understanding of the development of non-dispersive infrared gas sensors and the trends for the future investigation.

Hardcover, 120 pages, 2012, ISBN: 978-84-615-9732-1, €89.95
e-Book, Acrobat (pdf), e-ISBN: 978-84-615-9512-9, €79.95



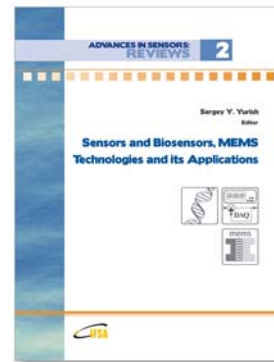
Modern Sensors, Transducers and Sensor Networks

Advances in Sensors:
Reviews, Vol. 1

Sergey Y. Yurish, Editor

The book contains dozen advanced state-of-the-art reviews written by 31 experts from academia and industry from 9 countries: Canada, Egypt, India, Malaysia, New Zealand, Spain, Taiwan, UK and USA. Coverage includes current developments in sensing nanomaterials, technologies, design, synthesis, modeling and applications of sensors, transducers and wireless sensor networks, signal detection and advanced signal processing, as well as new sensing principles and methods of measurements.

Paperback, 422 pages, 2012, ISBN: 978-84-615-9613-3, €179.95
e-Book, Acrobat (pdf), e-ISBN: 978-84-615-9012-4, €162.95



Sensors and Biosensors, MEMS Technologies and its Applications

Advances in Sensors:
Reviews, Vol. 2

Sergey Y. Yurish, Editor

The second volume titled 'Sensors and Biosensors, MEMS Technologies and its Applications' from the 'Advances in Sensors: Review' Book Series contains eighteen chapters with sensor related state-of-the-art reviews and descriptions of the latest achievements written by experts from academia and industry from 12 countries: China, India, Iran, Malaysia, Poland, Singapore, Spain, Taiwan, Thailand, UK, Ukraine and USA.

Paperback, 558 pages, 2013, ISBN: 978-84-616-4154-3, €179.95
e-Book, Acrobat (pdf), e-ISBN: 978-84-616-4153-6, €162.95

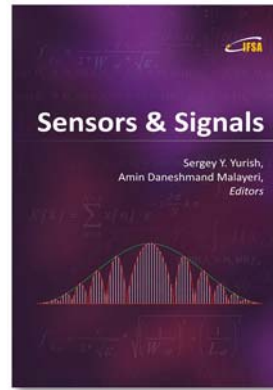


Handbook of Laboratory Measurements and Instrumentation

*Maria Teresa Restivo,
Fernando Gomes de Almeida,
Maria de Fátima Chouzal,
Joaquim Gabriel Mendes,
António Mendes Lopes,
Portugal*

The book presents experimental and laboratory activities with an approach as close as possible to reality, even offering remote access to experiments, providing to the reader an excellent tool for learning laboratory techniques and methodologies. This unique methodological book includes dozens videos, animations and simulations following each of chapters. It makes the title very valued and different from existing books on measurements and instrumentation. The set of open questions that closes each module is intended to provide formative assessment.

**e-Book, Acrobat (pdf) + media files, 211 pages, 2011,
e-ISBN: 978-84-615-1138-9, €98.00**

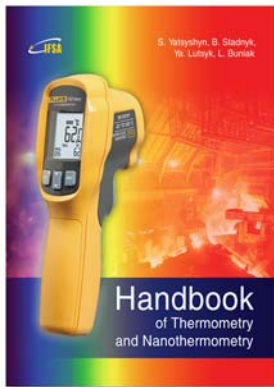


Sensors & Signals

*Sergey Y. Yurish and
Amin Daneshmand
Malayeri, Editors*

Sensors & Signals is the first book from the Book Series of the same name published by IFSA Publishing. The book contains eight chapters written by authors from universities and research centers from 10 countries: Cuba, Czech Republic, Egypt, Malaysia, Morocco, Portugal, Serbia, South Korea, Spain and Turkey. Each chapter of the book includes a state-of-the-art review in appropriate topic as well as the selected appropriate references at the end. With its distinguished editors and international team of contributors Sensors & Signals is suitable for academic and industrial research scientists, engineers and PhD students working in the area of sensors and its applications.

**Hardcover, 208 pages, 2015, ISBN: 978-84-608-2320-9, €59.99
e-Book, Acrobat (pdf), e-ISBN: 978-84-608-2319-3, €49.99**



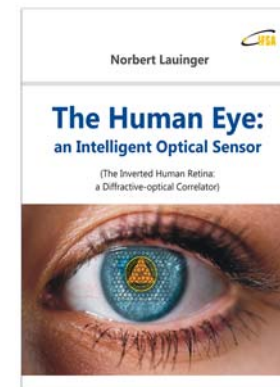
Handbook of Thermometry and Nanothermometry

*S. Yatsyshyn, B. Stadnyk,
Ya. Lutsyk, L. Buniak, UA*

The book presents and explains of main catchwords in the field of temperature measurements and nano-measurements. This the first, well-illustrated in full color, encyclopedia contains

more than 800 articles (vocabulary entries) in thermometry and nano-thermometry, and covers nearly every type of temperature measurement device and principles. At the end of book the authors provide a useful list of references for further information. Written by experts, the book at the first place is destined for all who are not acquainted enough with specificity of temperature measurement but are interested in it and study literary sources in this realm. The authors tried to enter maximally on catchwords list the issues, which refer directly or indirectly to thermometry as well as to nanothermometry.

**Paperback, 486 pages, 2015, ISBN: 978-84-606-7518-1, €169.99
e-Book, Acrobat (pdf), e-ISBN: 978-84-606-7852-6, €129.99**



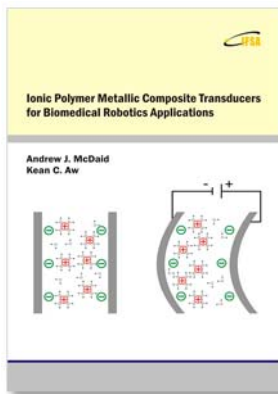
The Human Eye: an Intelligent Optical Sensor

(The Inverted Retina: a Diffractive-optical Correlator)

Norbert Lauinger, Germany

The book shows that the human eye from the prenatal structuring of the inverted retina hardware on up to the design of the central cortical visual pathway is not only different from but also radically more intelligent than a camera. A fascinating book for all those wondering that the brightness of a scene is not cut in half and that the visible world doesn't collapse into a flat 2D-image when closing one eye. Of great interest for students, scientists and engineers in eye-, vision- and brain-research, neuroscience, psychophysics, ophthalmology, psychology, optical sensor and diffractive optical engineering. Practical applications are the search for a retinal implant of the next generation and a helpful strategy against myopia in early childhood.

**Paperback, 410 pages, 2014, ISBN: 978-84-617-2934-0, €179.99
e-Book, Acrobat (pdf), e-ISBN: 978-84-617-2955-5, €134.99**



Ionic Polymer Metallic Composite Transducers for Biomedical Robotics Applications

Andrew J. McDaid
and Kean C. Aw,
New Zealand

The book describes a cluster of research which aims to not only the state of art through scientific progress in a specific smart material actuator, but also serves as a guideline to demonstrate the techniques in which many issues around developing future smart material actuators can be solved. Traditionally actuators are well known and understood and so, designing mechanical devices is almost trivial. But developing 'smart' devices for complex medical applications requires designing from a fundamental standpoint. This research-design-development process is described in the book. To this end, six biomedical devices have been developed, by first creating a new physics based design oriented model of the actuators, in order to be able to completely simulate the system and prove the design before committing to implementation.

Hardcover, 246 pages, 2014, ISBN: 978-84-616-7669-9, €110.00
e-Book, Acrobat (pdf), e-ISBN: 978-84-616-7670-5, €90.00

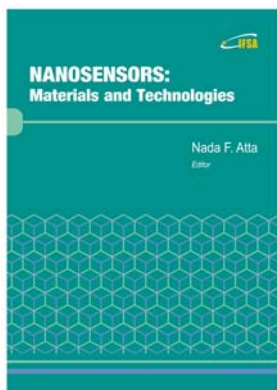


Magnetic Sensors and Applications Based on Thin Magnetically Soft Wires with Tunable Magnetic Properties

A. Zhukov and V. Zhukova,
Spain

This book on magnetic microwires for magnetic sensors applications is inspired by a rapidly growing interest in the development of functional materials with improved magnetic and magneto-transport properties and in sensitive and inexpensive magnetic sensors. The research is demanded by the last advances in technology and engineering. Certain industrial sectors, such as magnetic sensors, microelectronics or security demand cost-effective materials with reduced dimensionality and desirable magnetic properties (i.e., enhanced magnetic softness, giant magnetic field sensitivity, fast magnetization, switching etc.). This book can be of interest for PhD students, postdoctoral students and researchers working in the field of soft magnetic materials and applications.

Hardcover, 154 pages, 2014, ISBN: 978-84-617-1087-4, €105.00
e-Book, Acrobat (pdf), e-ISBN: 978-84-617-1866-5, €85.00



Nanosensors: Materials and Technologies

Nada F. Atta, Editor

The book aims to provide the readers with some of the most recent development of new and advanced materials such as carbon nanotubes, graphene, sol-gel films, self-assembly layers in presence of surface active agents, nanoparticles, and conducting polymers in the surface structuring for sensing applications. The emphasis of the presentations is devoted to the difference in properties and its relation to the mechanism of detection and specificity. Miniaturization is of unique importance for sensors applications. The chapters of this book present the usage of robust, small, sensitive and reliable sensors that take advantage of the growing interest in nanostructures.

Hardcover, 298 pages, 2013, ISBN: 978-84-616-5378-2, €110.00
e-Book, Acrobat (pdf), e-ISBN: 978-84-616-5422-2, €90.00

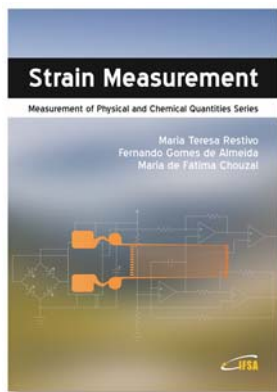


MEMS Pressure Sensors: Fabrication and Process Optimization

Parvej Ahmad Alvi, India

So far, no book has descry-bed the step by step fabrication process sequence along with flow chart for fabrication of micro pressure sensors, and therefore, the book has been written taking into account various aspects of fabrication and designing of the pressure sensors as well as fabrication process optimization. A complete experimental detail before and after each step of fabrication of the sensor has also been discussed. This leads to the uniqueness of the book. The book will greatly benefit undergraduate and postgraduate students of MEMS and NEMS course, process engineers and technologists in the microelectronics industry as well as MEMS-based sensors manufacturers.

Hardcover, 176 pages, 2012, ISBN: 978-84-616-2207-8, €139.99
e-Book, Acrobat (pdf), e-ISBN: 978-84-616-2438-6, €109.99



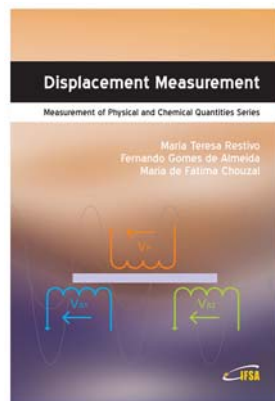
Strain Measurement

Measurement of Physical and Chemical Quantities Series, Vol. 1

*Maria Teresa Restivo,
Fernando Gomes de Almeida,
Maria de Fátima Chouzal,
Portugal*

The book deals with measurement of stresses and strains in mechanical and structural components. This topic is related to such diverse disciplines as physical and mechanical sciences, engineering (mechanical, aeronautical, civil, automotive, nuclear, etc.), materials, electronics, medicine and biology. The different subjects exposed in this book are presented in a very simple and easy sequence, which makes it most adequate for engineering students, technicians and professionals, as well as for other users interested in mechanical measurements and related instrumentation. The different chapters include several multimedia components such as animations, simulations and video clips.

Hardcover, 106 pages, 2012, ISBN: 978-84-616-0067-0, €109.95
e-Book, Acrobat (pdf), e-ISBN: 978-84-617-3617-1, €89.95



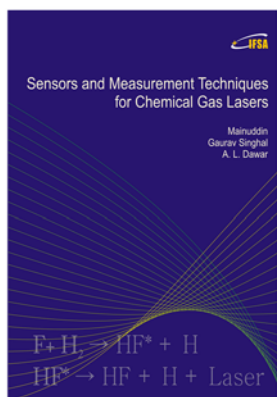
Displacement Measurement

Measurement of Physical and Chemical Quantities Series, Vol. 2

*Maria Teresa Restivo,
Fernando Gomes de Almeida,
Maria de Fátima Chouzal,
Portugal*

This book is addressed to researchers with different backgrounds and presents the various physical principles and associated techniques for displacement measurement. These comprehend the most classical techniques, based on the measurement of variations with displacement of electrical resistance, capacitance and inductance, or else optical techniques using electromagnetic, acoustic or interference wave measurements, still with open fields of research and offering a wide range of applications. The authors discuss the advantages and limitations of the various techniques and provide information on the ranges of measurements and associated accuracy.

Hardcover, 100 pages, 2014, ISBN: 978-84-616-0067-0, €69.00
e-Book, Acrobat (pdf), e-ISBN: 978-84-617-3617-1, €49.99

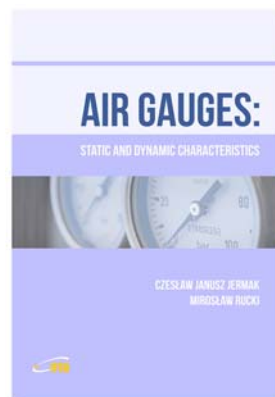


Sensors and Measurement Techniques for Chemical Gas Lasers

*Mainuddin, Gaurav Singhal,
A. L. Dawar, India*

Sensing and Measurement is the key technology area in the development of these lasers. Advanced sensing and measurement technologies are required to acquire, analyze and transform data into information that is useful to enhance the performance and capabilities of these lasers systems. Beginning with a brief introduction to the basic concepts of sensors and transducers, classification of various sensors, the monograph discusses characteristics of various sensors, sensor signals, signal conditioning and their operations in chemical lasers scenarios.

Hardcover, 210 pages, 2014, ISBN: 978-84-617-1152-9, €115.00
e-Book, Acrobat (pdf), e-ISBN: 978-84-617-1865-8, €95.00



Air Gauges: Static and Dynamic Characteristics

*Czesław Janusz Jermak
and Mirosław Rucki, Poznan
University of Technology,
Poland*

'Air Gauges: Static and Dynamic Characteristics' advanced book presents results of the researches and theoretical investigations on the air gauges. The reader will improve his knowledge on the air gauge performance and modeling, will find description of the investigation apparatus and interesting patented solutions of the innovative air gauging heads and measuring systems. Each chapter has its own conclusion section to help the reader to recall the most important information leading to the next step of the researches.

Hardcover, 150 pages, 2012, ISBN: 978-84-616-0237-7, €109.95
e-Book, Acrobat (pdf), e-ISBN: 978-84-616-0237-7, €99.95

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 - Scirus;
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 - Academic Journal Catalogue (AJC)
- 4 High e-Impact factor: 205.767 (2008), global impact factor: 0.705 (2013), Universal impact factor (UIF) is 0.3529 (2013).
- 5 The first sensors related journal, published in both formats in full-colour: print (paper, ISSN: 2306-8515) and electronic (pdf, e-ISSN: 1726-5479).
- 6 12 regular issues per year and additional special issues.
- 7 A very high publicity. The journal's alerts are sending to 54,000+ persons from academia and industry.
- 8 Very reasonable publication fee.
- 9 Wide topics of interest
- 10 Included in the IFSA List of recommended established journals (up-dated 9.12.2014)

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