Distance Sensors

Winncy Y. Du

Micromachined Ultrasound-Based Proximity Sensors Mark R. Hornung, Oliver Brand, 2012-12-06 Micromachined Ultrasound-Based Proximity Sensors presents a packaged ultrasound microsystem for object detection and distance metering based on micromachined silicon transducer elements. It describes the characterization, optimization and the long-term stability of silicon membrane resonators as well as appropriate packaging for ultrasound microsystems. Micromachined Ultrasound-Based Proximity Sensors describes a cost-effective approach to the realization of a micro electro mechanical system (MEMS). The micromachined silicon transducer elements were fabricated using industrial IC technology combined with standard silicon micromachining techniques. Additionally, this approach allows the cointegration of the driving and read-out circuitry. To ensure the industrial applicability of the fabricated transducer elements intensive long-term stability and reliability tests were performed under various environmental conditions such as high temperature and humidity. Great effort was undertaken to investigate the packaging and housing of the ultrasound system, which mainly determine the success or failure of an industrial microsystem. A low-stress mounting of the transducer element minimizes thermomechanical stress influences. The developed housing not only protects the silicon chip but also improves the acoustic performance of the transducer elements. The developed ultrasound proximity sensor system can determine object distances up to 10 cm with an accuracy of better than 0.8 mm. Micromachined Ultrasound-Based Proximity Sensors will be of interest to MEMS researchers as well as those involved in solid-state sensor development.

Sensors for Industrial Inspection C. Loughlin,2012-12-06 Numerous areas of expertise are often required for the inspection of an individual product, with many different sensors being used within a single inspection machine. For this reason it is necessary for the production engineer to have at least a working knowledge of all the different technologies that may be employed. This book covers the majority of sensors that can be applied on the shop floor and has been designed to assist engineers with little or no previous experience in the various fields. The information that the book contains is of a highly practical nature and is based on the author's considerable first-hand experience of varied industrial applications.

Position Sensing Hans Walcher,2014-05-12 Position Sensing: Angle and Distance Measurement for Engineers focuses on the electrical measurement of angles and distances. The publication first elaborates on industrial principles and sensors and measurement systems. Discussions focus on measurement technology, terms used in information technology, methods of

measurement, analogue angle and displacement sensors, features of processes using a digital-incremental measurement base, electromechanical position sensing systems, and capacitive scanning. Carrier frequency scanning, electromagnetic pulse generator, photoelectric position sensing systems, distance measurement by the pulse-time delay method, laser gyroscope, and systems with analogue measurement and subsequent analogue-to-digital conversion are also discussed. The manuscript then examines intelligent sensors and connection of measurement systems. Topics cover electrical couplings for fine and coarse measurement systems, mechanical links for converting longitudinal to angular motion, general properties of intelligent sensors, and interconnection of intelligent sensors. The text is highly recommended for mechanical engineers and measurement and control technicians.

<u>Ultrasonic Sensors for Chemical and Process Plant</u> Ray C. Asher,1997 Provides a comprehensive overview of the properties, generation, and detection of ultrasound, and the technical application of ultrasonic sensors. Covers identifying liquids and gases, characterizing dispersions, monitoring concentrations and flow rates, and locating the position of liquid surfaces and other interfaces. Suitable for the non-specia.

Characteristics of Ultrasonic Ranging Sensors in an Underground Environment William H. Strickland, Robert H. King, 1993

Recent Advances in Applied Science and Engineering Dr. Ankita Saini, Dr. Sunil Kumar Saini, 2024-02-14 Recent Advances in Applied Science and Engineering represents a thorough and state-of-the-art exploration of the most recent developments across various disciplines within the fields of applied science and engineering. Each chapter provides in-depth analyses of emerging technologies, methodologies, and discoveries, emphasizing the practical applications of these advancements to address real-world challenges. Furthermore, the book not only showcases recent achievements but also engages in discussions about potential future directions and challenges in applied science and engineering. This forward-looking approach offers readers a roadmap for upcoming research areas and opportunities for innovation. Serving as an indispensable resource, this book provides a comprehensive overview of the latest developments in these rapidly evolving fields. Whether a researcher or student, readers will find this book to be a valuable reference for staying informed about the most recent advancements shaping the future of applied science and engineering.

<u>Uncertainty Measurement for Ultrasonic Sensor Fusion Using Generalized Aggregated Uncertainty Measure</u> A. Mohammad-Shahri, M. Khodabandeh, In this paper, target differentiation based on the pattern of data which are obtained by a set of two ultrasonic sensors is considered.

<u>Understanding Position Sensors</u> David Nyce,2023-06-27 As the definitive resource on position sensing technology, Understanding Position Sensors encompasses all aspects necessary for a full understanding of the field, with topics of background, operational theory, design, and application. While grasping the theory of technologies used in the measurement of linear and angular/rotary position sensors, the reader will also learn about terminology, interfacing, testing, and other valuable concepts that are useful in the understanding of sensors in general. The first three chapters provide readers with the necessary background information on sensors. These chapters review the working definitions and conventions used in sensing technology; specification of position sensors and the effect on performance; and sensor output types, plus an extensive section covering communication protocols. The remaining chapters describe each separate sensor technology in detail. These include resistive sensors, cable extension transducers, capacitive sensors, inductive sensors, LVDT and RVDT sensors, distributed impedance sensors, Hall effect sensors, magnetoresistive sensors, magnetostrictive sensors, linear and rotary encoders, optical triangulation position sensors, and ultrasonic position sensors. Presents sensor specification, theory of operation, sensor design, and application criteria Reviews the background history of position sensors as well as the underlying engineering techniques Includes end-of-chapter exercises Understanding Position Sensors is written for electrical, mechanical, and material engineers, as well as for engineering students who are interested in understanding sensor technologies, and can be used as a textbook for an engineering course on sensor technology.

Sensors for Mobile Robots H.R. Everett,1995-07-15 The author compiles everything a student or experienced developmental engineer needs to know about the supporting technologies associated with the rapidly evolving field of robotics. From the table of contents: Design Considerations * Dead Reckoning * Odometry Sensors * Doppler and Inertial Navigation * Typical Mobility Configurations * Tactile and Proximity Sensing * Triangulation Ranging * Stereo Disparity * Active Triangulation * Active Stereoscopic * Hermies * Structured Light * Known Target Size * Time of Flight * Phase-Shift Measurement * Frequency Modulation * Interferometry * Range from Focus * Return Signal Intensity * Acoustical Energy * Electromagnetic Energy * Optical Energy * Microwave Radar * Collision Avoidance * Guidepath Following * Position-Location Systems * Ultrasonic and Optical Position-Location Systems * Wall, Doorway, and Ceiling Referencing * Application-Specific Mission Sensors

Smart Sensors and Sensing Technology Gourab Sen Gupta, 2008-07-01 Technological advancements in recent years have enabled the development of tiny, cheap disposable and self contained battery powered computers, known as sensor nodes or "motes", which can accept input from an attached sensor, process this input and transmit the results wirelessly to some interested device(s). When a number of these nodes work together, conceivably up to hundreds of thousands, a Wireless Sensor Network (WSN) is formed. Research in the area of wireless sensor networks has become increasingly wid- pread in recent years, partly due to their wide range of potential uses and also partly due to the fact that the technology enabling such networks is now widely available from many di?erent suppliers, such as: Crossbow, MoteIV, Intel and SUN (java based motes). These wireless sensor networks have the potential to allow a level of integration between computers and the physical world that, to date, has been virtually impos- ble. The uses for such networks is almost limitless and include such diverse app-

cations as a counter sniper system for urban warfare [1] tracking the path of a forest re [2], determining the structural stability of a building after an earthquake [3], or tracking people or objects inside a building [4], etc.

Ultrasonic Transducers K Nakamura, 2012-08-23 Ultrasonic transducers are key components in sensors for distance, flow and level measurement as well as in power, biomedical and other applications of ultrasound. Ultrasonic transducers reviews recent research in the design and application of this important technology. Part one provides an overview of materials and design of ultrasonic transducers. Piezoelectricity and basic configurations are explored in depth, along with electromagnetic acoustic transducers, and the use of ceramics, thin film and single crystals in ultrasonic transducers. Part two goes on to investigate modelling and characterisation, with performance modelling, electrical evaluation, laser Doppler vibrometry and optical visualisation all considered in detail. Applications of ultrasonic transducers are the focus of part three, beginning with a review of surface acoustic wave devices and air-borne ultrasound transducers, and going on to consider ultrasonic transducers for use at high temperature and in flaw detection systems, power, biomedical and micro-scale ultrasonics, therapeutic ultrasound devices, piezoelectric and fibre optic hydrophones, and ultrasonic motors are also described. With its distinguished editor and expert team of international contributors, Ultrasonic transducers is an authoritative review of key developments for engineers and materials scientists involved in this area of technology as well as in its applications in sectors as diverse as electronics, wireless communication and medical diagnostics. Reviews recent research in the design and application of ultrasonic transducers Provides an overview of the materials and design of ultrasonic transducers, with an in-depth exploration of piezoelectricity and basic configurations Investigates modelling and characterisation, applications of ultrasonic transducers, and ultrasonic transducers for use at high temperature and in flaw detection systems

Resistive, Capacitive, Inductive, and Magnetic Sensor Technologies Winncy Y. Du,2014-12-09 Sensor technologies have experienced dramatic growth in recent years, making a significant impact on national security, health care, environmental improvement, energy management, food safety, construction monitoring, manufacturing and process control, and more. However, education on sensor technologies has not kept pace with this rapid development

Sensors and Sensory Systems for Advanced Robots Paolo Dario, Centro E. Piaggio, 2012-12-06 This volume contains papers presented at the NATO Advanced Research Workshop (ARW) on Sensors and Sensory Systems for Advanced Robots, which was held in Maratea, Italy, during the week Apri I 28 - May 3, 1986. Participants in the ARW, who came from eleven NATO and two non-NATO countries, represented an international assortment of distinguished research centers in industry, government and academia. Purpose of the Workshop was to review the state of the art of sensing for advanced robots, to discuss basic concepts and new ideas on the use of sensors for robot control and to provide recommendations for future research in this area, There IS an almost unanimous consensus among investigators in the field of robotics that the

add i t i on of sensory capabi I ities represents the natural evolution of present industrial robots, as wei I as the necessary premise to the development of advanced robots for nonindustrial app I i cat ions. However, a number of conceptua I and techn i ca I problems sti I I challenge the practical implementation and widespread application of sensor-based robot control techn i ques. Cruc i a I among those prob I ems is the ava i lab iii ty of adequate sensors.

Inductive Sensors for Industrial Applications Sorin Fericean, 2018-12-31 This practical guide provides a comprehensive survey of all relevant inductive sensor classes for industrial applications in a single volume, from automotive use to white goods, covering design, fabrication, implementation, principles and functionality as well as standards and EMC requirements. The book addresses professional engineers and technicians, but is also accessible to students who require a solid basic knowledge of inductive sensors. Each chapter begins with classic, traditional explanations and gradually moves on to state-of- the art analog and digital solutions, including large-scale integrated systems-on-chip, software defined sensors SDS, digital signal synthesis, coils on silicon and active inductors. The book employs three modern analysis methods: analytic computation; popular graphical methods (phasor diagrams, phase plans, Smith charts, etc.) and computer assisted tools, like the electromagnetic field simulator, Maxwell, and the popular Spice simulator for electronic circuits. For traditional solutions, the chapters give overviews in tables with computation formulae (including empirical expressions). Numerical examples help the reader consolidate the theoretical knowledge gained. Concrete examples for currently available commercial parts are provided.

<u>Artificial Life Models in Hardware</u> Andrew Adamatzky, Maciej Komosinski, 2009-05-20 Hopping, climbing and swimming robots, nano-size neural networks, motorless walkers, slime mould and chemical brains - Artificial Life Models in Hardware offers unique designs and prototypes of life-like creatures in conventional hardware and hybrid bio-silicon systems. Ideas and implementations of living phenomena in non-living substrates cast a colourful picture of state-of-art advances in hardware models of artificial life.

Time-of-Flight Cameras Miles Hansard, Seungkyu Lee, Ouk Choi, Radu Patrice Horaud, 2012-11-06 Time-of-flight (TOF) cameras provide a depth value at each pixel, from which the 3D structure of the scene can be estimated. This new type of active sensor makes it possible to go beyond traditional 2D image processing, directly to depth-based and 3D scene processing. Many computer vision and graphics applications can benefit from TOF data, including 3D reconstruction, activity and gesture recognition, motion capture and face detection. It is already possible to use multiple TOF cameras, in order to increase the scene coverage, and to combine the depth data with images from several colour cameras. Mixed TOF and colour systems can be used for computational photography, including full 3D scene modelling, as well as for illumination and depth-of-field manipulations. This work is a technical introduction to TOF sensors, from architectural and design issues, to selected image processing and computer vision methods.

Sensors for Ultrasonic NDT in Harsh Environments Anthony N Sinclair, Robert E. Malkin, 2020-05-13 In this Special Issue of Sensors, seven peer-reviewed manuscripts appear on the topic of ultrasonic transducer design and operation in harsh environments: elevated temperature, high gamma and neutron radiation fields, or the presence of aggressive chemicals. Motivations for these research and development projects are strongly focused on nuclear power plant inspections (particularly liquid-sodium cooled reactors), and nondestructive testing of high-temperature piping installations. It is anticipated that extensive use of permanently mounted robust transducers for in-service monitoring of petrochemical plants and power generations stations; quality control in manufacturing plants; and primary and secondary process monitoring in the fabrication of engineering materials will soon be made.

Distributed Sensor Arrays Prabhakar S. Naidu,2017-09-22 Localization of transmitters and receiving sensors is achieved by measuring radiation emitted by a source to a set of sensors, which are either on a definite pattern, known as an array, or one randomly located at irregular points, known as a distributed sensor array. This book discusses how to determine the position of sensors and transmit information to a central node, also known as the anchor node. Time of arrival, time difference of arrival, frequency time of arrival, and strength of received signal are also covered. The reader will learn effective algorithms and implementation, as well as numerical examples, with the inclusion of lab experiments. It discusses time synchronization, including the rotating laser beam to measure distance, in detail.

An Introduction to Distributed Optical Fibre Sensors Arthur H. Hartog,2017-05-25 This book explains physical principles, unique benefits, broad categories, implementation aspects, and performance criteria of distributed optical fiber sensors (DOFS). For each kind of sensor, the book highlights industrial applications, which range from oil and gas production to power line monitoring, plant and process engineering, environmental monitoring, industrial fire and leakage detection, and so on. The text also includes a discussion of such key areas as backscattering, launched power limitations, and receiver sensitivity, as well as a concise historical account of the field's development.

Robotic Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2020-01-03 Through expanded intelligence, the use of robotics has fundamentally transformed a variety of fields, including manufacturing, aerospace, medicine, social services, and agriculture. Continued research on robotic design is critical to solving various dynamic obstacles individuals, enterprises, and humanity at large face on a daily basis. Robotic Systems: Concepts, Methodologies, Tools, and Applications is a vital reference source that delves into the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. Highlighting a range of topics such as mechatronics, cybernetics, and human-computer interaction, this multi-volume book is ideally designed for robotics engineers, mechanical engineers, robotics technicians, operators, software engineers, designers, programmers, industry professionals, researchers, students, academicians, and computer practitioners seeking current research on developing

innovative ideas for intelligent and autonomous robotics systems.

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