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Automotive Sensors Sensors for Automotive Applications Aerospace Sensors Fix Jeep Grand Cherokee Engine Stalling Design of Knock Sensors and Piezoaccelerometers Vehicle Sensors and Actuators Automotive Mechatronics Sensors, Micro- and Nanosensor Technology Application of a Bank of Kalman Filters for Aircraft Engine Fault Diagnostics Proceedings of the Symposium on Chemical Sensors II Intelligent Transportation Related Complex Systems and Sensors Electronic Engine Controls 1999 Chemical Sensors Chemical Sensors VI Systems of Commercial Turbofan Engines Modeling and Control of Engines and Drivelines Popular Mechanics Solid State Gas Sensors - Industrial Application Selected Topics in Advanced Solid State and Fibre Optic Sensors Mobile Sensors and Context-Aware Computing Sensors and Microsystems Sensors And Microsystems - Proceedings Of The 12th Italian Conference Proceedings of the 12th Italian Conference, Sensors and Microsystems, Napoli, Italy, 12-14 February 2007 Fiber Bragg Grating Based Sensors and Systems Ceramic Materials and Components for Engines Sensors for Automotive and Aerospace Applications Giant Magnetoresistance (GMR) Sensors Advanced Detection, Isolation, and Accommodation of Sensor Failures in Turbofan Engines Introduction to Sensors Advanced Automotive Engine Performance 101 Projects for Your Porsche 911 996 and 997 1998-2008 Expanding the Vision of Sensor Materials Sensors, Chemical and Biochemical Sensors Electrochemistry of Zirconia Gas Sensors Advanced Microsystems for Automotive Applications 98 Automotive Electronic Systems Check Engine Light: 10 Tips To Not See That Light Again! Fiber Optic Sensors Understanding Automotive Electronics Methods for Monitoring and Diagnosing the Efficiency of Catalytic Converters

Advances in materials science and engineering have paved the way for the development of new and more capable sensors. Drawing upon case studies from manufacturing and structural monitoring and involving chemical and long wave-length infrared sensors, this book suggests an approach that frames the relevant technical issues in such a way as to expedite the consideration of new and novel sensor materials. It enables a multidisciplinary approach for identifying opportunities and making realistic assessments of technical risk and could be used to guide relevant research and development in sensor technologies. Chemical sensors are integral to the automation of myriad industrial processes, as well as everyday monitoring of such activities as public safety, engine performance, medical therapeutics, and many more. This massive reference work will cover all major categories of chemical sensor materials and devices, and their general functional usage...from monitoring and analyzing gases, to analyzing liquids and compounds of all kinds. This is THE reference work on sensors used for chemical detection and analysis. In this final volume of the Chemical Sensors will be found the latest in new chemical sensor applications including remote chemical sensing for such applications as atmosphere monitoring, new uses for electronic "noses" and "tongues," wireless chemical sensors, and new future directions for chemical sensors in industry, agriculture, and transportation. Vaezi-Nejad (electronics and measurements, U. of Greenwich, London, England) has assembled a textbook that will be useful to graduate students and engineers on advanced solid state and fiber optic sensors, with each chapter written by a specialist in that area, and a lengthy introduction by the editor. The topics covered are: measurement and instrumentation systems based on optical techniques; amplitude, wavelength, phase and polarization modulating sensors; amorphous semiconductor photoreceptors and X-ray image sensors; dielectrophoretic sensors for microbiological applications; electrically conducting polymers for sensing volatile chemicals, and thin film (CIAIPc) phthalocyanine gas sensors. c. Book News Inc. This volume covers the various sensors related to automotive and aerospace sectors, discussing their properties as well as how they are realized, calibrated and deployed. Written by experts in the field, it provides a ready reference to product developers, researchers and students working on sensor design and fabrication, and provides perspective on both current and future research. The first book to present a detailed analysis of the electrochemistry, development, modeling, optimization, testing, and technology behind modern zirconia-based sensors, Electrochemistry of Zirconia Gas Sensors explores how to tailor these sensors to meet specific industrial needs. The book addresses a range of different stages of development in zi Control systems have come to play an important role in the performance of modern vehicles with regards to meeting goals on low emissions and low fuel consumption. To achieve these goals, modeling, simulation, and analysis have become standard tools for the development of control systems in the automotive industry. Modeling and Control of Engines and Drivelines provides an up-to-date treatment of the topic from a clear perspective of systems engineering and control systems, which are at the core of vehicle design. This book has three main goals. The first is to provide a thorough understanding of component models as building blocks. It has therefore been important to provide measurements from real processes, to explain the underlying physics, to describe the modeling considerations, and to validate the resulting models experimentally. Second, the authors show how the models are used in the current design of control and diagnosis systems. These system designs are never used in isolation, so the third goal is to provide a complete setting for system integration and evaluation, including complete vehicle models together with actual requirements and driving cycle analysis. Key features: Covers signals, systems, and control in modern vehicles Covers the basic dynamics of internal combustion engines and drivelines Provides a set of standard models and includes examples and case studies Covers turbo- and super-charging, and automotive dependability and diagnosis Accompanied by a web site hosting example models and problems and solutions Modeling and Control of Engines and Drivelines is a comprehensive reference for graduate students and the authors' close collaboration with the automotive industry ensures that the knowledge and skills that practicing engineers need when analysing and developing new powertrain systems are also covered. Several ceramic parts have already proven their suitability for serial application in automobile engines in very impressive ways, especially in Japan, the USA and in Germany. However, there is still a lack of economical quality assurance concepts. Recently, a new generation of ceramic components, for the use in energy, transportation and environment systems, has been developed. The efforts are more and more system oriented in this field. The only possibility to manage this complex issue in the future will be interdisciplinary cooperation. Chemists, physicists, material scientists, process engineers, mechanical engineers and engine manufacturers will have to cooperate in a more intensive way than ever before. The R&D activities are still concentrating on gas turbines and reciprocating engines, but also on brakes, bearings, fuel cells, batteries, filters, membranes, sensors and actuators as well as on shaping and cutting tools for low expense machining of ceramic components. This book summarizes the scientific papers of the 7th International Symposium "Ceramic Materials and Components for Engines". Some of the most fascinating new applications of ceramic materials in energy, transportation and environment systems are presented. The proceedings shall lead to new ideas for interdisciplinary activities in the future. Sensors is the first self-contained series to deal with the whole area of sensors. It describes general aspects, technical and physical fundamentals, construction, function, applications and developments of the various types of sensors. This final volume of the series uncovers trends in sensor technology and gives a comprehensive overview of the sensor market. The use of sensors in microsystems and in vacuum microelectronic as well as in acoustic wave devices is discussed. Present and emerging applications of sensors in aerospace, environmental, automotive, and medical industries, among others, are described. This volume is an indispensable reference work for both specialists and newcomers, researchers and developers Gas sensor products are very often the key to innovations in the fields of comfort, security, health, environment, and energy savings. This compendium focuses on what the research community labels as solid state gas sensors, where a gas directly changes the electrical properties of a solid, serving as the primary signal for the transducer. It starts with a visionary approach to how life in future buildings can benefit from the power of gas sensors. The requirements for various applications, such as for example the automotive industry, are then discussed in several chapters. Further contributions highlight current trends in new sensing principles, such as the use of nanomaterials and how to use new sensing principles for innovative applications in e.g. meteorology. So as to bring together the views of all the different groups needed to produce new gas sensing applications, renowned industrial and academic representatives report on their experiences and expectations in research, applications and industrialisation. Since the discovery of the giant magnetoresistance (GMR) effect in 1988, spintronics has been presented as a new technology paradigm, awarded by the Nobel Prize in Physics in 2007. Initially used in read heads of hard disk drives, and while disputing a piece of the market to the flash memories, GMR devices have broadened their range of usage by growing towards magnetic field sensing applications in a huge range of scenarios. Potential applications at the time of the discovery have become real in the last two decades. Definitively, GMR was born to stand. In this sense, selected successful approaches of GMR based sensors in different applications: space, automotive, microelectronics, biotechnology ... are collected in the present book.

While keeping a practical orientation, the fundamentals as well as the current trends and challenges of this technology are also analyzed. In this sense, state of the art contributions from academy and industry can be found through the contents. This book can be used by starting researchers, postgraduate students and multidisciplinary scientists in order to have a reference text in this topical fascinating field. The dramatic evolution of catalytic converters in the last thirty years was a result of a need worldwide to reduce pollution created by the exhaust gases of internal combustion engines. Environmental concerns have led American, Japanese and European Union (EU) legislation to pose continuously stricter emission limits for petrol engines in the last decades. The catalytic converter has become the most important means of exhaust treatment to achieve the desired emission limits. The international legislation has also created a need for a regular assessment of the efficiency of the catalytic converter in order to detect a deterioration of its conversion efficiency as soon as this deterioration takes place. The assessment of conversion efficiency of a catalytic converter can take place during normal driving of a vehicle (on-board diagnosis or OBD) or in a workshop by specialized technicians. The most important methods nowadays are the OBD methods. The evolution of methods concerned with OBD and non-OBD monitoring and diagnosing of efficiency of catalytic converters of internal combustion engines is described based on patents and published patent applications. Non-patent references are also used. The basic principles of modern catalytic converters are described in an extensive Introduction, where the importance of monitoring and diagnosing the efficiency of catalytic converters is demonstrated. The book is divided into four parts. The first part describes methods involving the use of oxygen or air/fuel exhaust gas sensors to determine the oxygen storage capacity of a catalytic converter. The second part describes methods involving the use of temperature sensors to determine the exothermic reaction capacity of a catalytic converter. The third part describes all other methods existing in patent literature that monitor and diagnose the efficiency of catalytic converters. The great majority of the methods of the third part involves exhaust gas concentration measurements. The fourth part comprises a general discussion of all methods described. In the beginning of each part, a short introduction is given to explain the problem that the methods attempt to solve. The methods in each part are presented in chronological order per patent applicant. This helps to evaluate how the patent applicant has improved his methods over time. A patent number index with information about the patent applicants, inventors, priorities and patent-families, an inventor index, a company index and a subject index can be found at the end of the book. Microsystems are an important success factor in the automobile industry. In order to fulfil the customers requests for safety convenience and vehicle economy, and to satisfy environmental requirements, microsystems are becoming indispensable. Thus a large number of microsystem applications came into the discussion. Some examples are sensors for engine management, exhaust and air quality control, immobilizers, ABS, anti skid (ASC) and vehicle dynamics control (VDC), smart airbag systems and other safety applications as obstacle detection and vision enhancement. With the international conference AMAA '98, VDI/VDE-IT provides a platform for the discussion of all MST relevant components for automotive applications. The conference proceedings gather the papers by authors from automobile suppliers and manufacturers. The need for new types of sensors is more critical than ever. This is due to the emergence of increasingly complex technologies, health and security concerns of a burgeoning world population, and the emergence of terrorist activities, among other factors. Depending on their application, the design, fabrication, testing, and use of sensors, all require various kinds of both technical and nontechnical expertise. With this in mind, Introduction to Sensors examines the theoretical foundations and practical applications of electrochemical, piezoelectric, fiber optic, thermal, and magnetic sensors and their use in the modern era. Incorporating information from sensor-based industries to review current developments in the field, this book: Presents a complete sensor system that includes the preparation phase, the sensing element and platform, and appropriate electronics resulting in a digital readout Discusses solid-state electronic sensors, such as the metal oxide semiconductor (MOS) capacitor, the micromachined capacitive polymer, and the Schottky diode sensors Uses the two-dimensional hexagonal lattice as an example to detail the basic theory associated with piezoelectricity Explores the fundamental relationship between stress, strain, electric field, and electric displacement The magnetic sensors presented are used to determine measurands such as the magnetic field and semiconductor properties, including carrier concentration and mobility. Offering the human body and the automobile as examples of entities that rely on a multiplicity of sensors, the authors address the application of various types of sensors, as well as the theory and background information associated with their development and the materials used in their design. The coverage in this book reveals the underlying rationale for the application of different sensors while also defining the properties and characteristics of each. Since its introduction in 1998, the water-cooled Porsche 911 has earned a reputation as one of the world's greatest sports cars - equal to, if not better than, the legendary air-cooled 911 it replaced. The 911 is a true driver's car, and it offers its greatest driving rewards when properly maintained, tuned, and modified. One of the principal drawbacks to owning a Porsche is the relatively high cost of maintaining it. You can literally save thousands of dollars in mechanic's costs simply by performing some of the work yourself. With 101 Projects for Your Porsche 911 996 and 997 1998-2008, written by renowned Porsche author Wayne Dempsey, you'll be able to get into the garage and work on your 911 with confidence. Created with the weekend mechanic in mind, this highly illustrated Motorbooks Workshop title offers 101 step-by-step projects designed to help you maintain, modify, and improve your late-model 911. Focusing on the water-cooled 996 and 997 models, this book presents all the necessary knowledge, associated costs, and pitfalls to avoid when performing an expansive array of projects. And besides the savings, when you personally complete a job on your Porsche, you get the added satisfaction of having done it yourself. Mobile Sensors and Context-Aware Computing is a useful guide that explains how hardware, software, sensors, and operating systems converge to create a new generation of context-aware mobile applications. This cohesive guide to the mobile computing landscape demonstrates innovative mobile and sensor solutions for platforms that deliver enhanced, personalized user experiences, with examples including the fast-growing domains of mobile health and vehicular networking. Users will learn how the convergence of mobile and sensors facilitates cyber-physical systems and the Internet of Things, and how applications which directly interact with the physical world are becoming more and more compatible. The authors cover both the platform components and key issues of security, privacy, power management, and wireless interaction with other systems. Shows how sensor validation, calibration, and integration impact application design and power management Explains specific implementations for pervasive and context-aware computing, such as navigation and timing Demonstrates how mobile applications can satisfy usability concerns, such as know me, free me, link me, and express me Covers a broad range of application areas, including ad-hoc networking, gaming, and photography Taken as a whole, this series covers all major fields of application for commercial sensors, as well as their manufacturing techniques and major types. As such the series does not treat bulk sensors, but rather places strong emphasis on microsensors, microsystems and integrated electronic sensor packages. Each of the individual volumes is tailored to the needs and queries of readers from the relevant branch of industry. 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. Advanced Automotive Engine Performance is designed to prepare novice technicians for the challenge of diagnosing today's highly technical electronic engine controls. Using this curriculum, learners will gain familiarity with the operation and variations of emissions systems and associated onboard monitors. The curriculum especially focuses on applying diagnostic strategy to and performing service procedures for emissions systems faults. Learners will also develop an understanding of IM testing and an ability to interpret IM test reports to aid in diagnosis. This objective-based curriculum will prepare learners for the challenges of servicing engine management systems in the shop today. This is a complete curriculum solution for Advanced Automotive Engine Performance. Online courseware is available and is rich in video and animation to support understanding of complex systems. This solution is available in print-plus-digital, or digital-only offerings, providing eBook and online course pairing with mobile-friendly adaptability. Complete tests, task sheets, and instructor resources make this curriculum easy to adopt and integrate into any automotive program. Essentially all automotive electrical systems are effected by the new electrical system voltage levels. As in all previous editions, this revision keeps Understanding Automotive Electronics up-to-date with technological advances in this rapidly evolving field. \*Discusses the development of hybrid/electric vehicles and their associated electronic control/monitoring systems \*Contains the new technologies incorporated into conventional gasoline and diesel-fueled engines \*Covers the shift from 14-volt to 42-volt systems and includes info on future automotive electronic systems Dear Friend, stop wasting hours of your valuable time doing multiple searches on the internet trying to find information on what engine sensors are on your engine, what they do, what data they send to the engine computer, what the sensor looks like, where it is located, and how to replace it! This book shows you what I did to fix my 1998 Jeep Grand Cherokee Laredo 4.0L six cylinder engine stalling issues without going to the Jeep dealer. To find the basic information in this book on the internet would take you many, many frustrating hours of searching. This information also applies in general, but not exactly, to other year and model Jeeps that have the same 4.0L six cylinder engine. This book could save you a lot of money depending on what a Dealer would charge to try and fix your stalling problem. Take action to better your life; if you fail to take action today, things will not get better. This book collects a number of papers presented at the 13th Italian Conference on Sensors and Microsystems. It provides a unique perspective on the research and development of sensors, microsystems and related technologies in Italy. Besides the scientific value of the papers, this

book offers a unique source of data to analysts that intend to survey the Italian situation on sensors and microsystems. Building around innovative services related to different modes of transport and traffic management, intelligent transport systems (ITS) are being widely adopted worldwide to improve the efficiency and safety of the transportation system. They enable users to be better informed and make safer, more coordinated, and smarter decisions on the use of transport networks. Current ITSs are complex systems, made up of several components/sub-systems characterized by time-dependent interactions among themselves. Some examples of these transportation-related complex systems include: road traffic sensors, autonomous/automated cars, smart cities, smart sensors, virtual sensors, traffic control systems, smart roads, logistics systems, smart mobility systems, and many others that are emerging from niche areas. The efficient operation of these complex systems requires: i) efficient solutions to the issues of sensors/actuators used to capture and control the physical parameters of these systems, as well as the quality of data collected from these systems; ii) tackling complexities using simulations and analytical modelling techniques; and iii) applying optimization techniques to improve the performance of these systems. In "Check Engine Light: 10 Tips To Not See That Light Again!", Gavin J. Knox, the founder of thecheckenginelight.com and an expert in car maintenance, provides a concise, easy-to-understand guide to keeping your car in top condition. This book demystifies the common issues that trigger the check engine light and offers practical advice for regular car maintenance. From understanding your car's fuel and electrical systems to mastering the intricacies of sensors, emissions, and cooling systems, Knox covers it all. The book also includes tips for both automatic and manual transmissions and insights into the ignition system. Concluding with strategies for creating a personalized car maintenance routine, this book is an invaluable resource for drivers looking to enhance their vehicle's longevity and avoid common pitfalls. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. As the complexity of automotive vehicles increases this book presents operational and practical issues of automotive mechatronics. It is a comprehensive introduction to controlled automotive systems and provides detailed information of sensors for travel, angle, engine speed, vehicle speed, acceleration, pressure, temperature, flow, gas concentration etc. The measurement principles of the different sensor groups are explained and examples to show the measurement principles applied in different types. To understand the operation of aircraft gas turbine engines, it is not enough to know the basic operation of a gas turbine. It is also necessary to understand the operation and the design of its auxiliary systems. This book fills that need by providing an introduction to the operating principles underlying systems of modern commercial turbofan engines and bringing readers up to date with the latest technology. It also offers a basic overview of the tubes, lines, and system components installed on a complex turbofan engine. Readers can follow detailed examples that describe engines from different manufacturers. The text is recommended for aircraft engineers and mechanics, aeronautical engineering students, and pilots. In this paper, a bank of Kalman filters is applied to aircraft gas turbine engine sensor and actuator fault detection and isolation (FDI) in conjunction with the detection of component faults. This approach uses multiple Kalman filters, each of which is designed for detecting a specific sensor or actuator fault. In the event that a fault does occur, all filters except the one using the correct hypothesis will produce large estimation errors, thereby isolating the specific fault. In the meantime, a set of parameters that indicate engine component performance is estimated for the detection of abrupt degradation. The proposed FDI approach is applied to a nonlinear engine simulation at nominal and aged conditions, and the evaluation results for various engine faults at cruise operating conditions are given. The ability of the proposed approach to reliably detect and isolate sensor and actuator faults is demonstrated. (7 tables, 4 figures, 17 refs.). This book contains a selection of papers presented at the 12th Italian Conference on Sensors and Microsystems. It provides a unique perspective on the research and development of sensors, microsystems and related technologies in Italy. The scientific values of the papers also offers an invaluable source to analysts intending to survey the Italian situation about sensors and microsystems. In an interdisciplinary approach, many aspects of the disciplines are covered, ranging from materials science, chemistry, applied physics, electronic engineering and biotechnologies. This book will help engineers, technicians, and designers to better understand a wide range of sensors, from those based on piezoelectric phenomena through those for thermal and flow measurement to the directional sensors that can inform the driver of his orientation on the road. Author John Turner, concludes his book with future trends in use of telematic sensing systems for traffic control and traffic automation. This book contains a selection of papers presented at the 10th Italian Conference on Sensors and Microsystems. It provides a unique perspective on the research and development of sensors, microsystems and related technologies in Italy. The scientific values of the papers also offers an invaluable source to analysts intending to survey the Italian situation about sensors and microsystems. In an interdisciplinary approach, many aspects of the disciplines are covered, ranging from materials science, chemistry, applied physics, electronic engineering and biotechnologies. This book deals systematically with the creation of piezoelectric knock sensors for automotive engine control. The authors consider the problems encountered in the theoretical modeling and design of primary piezoelectric acceleration gauges for various objects and classify specific features of automotive internal combustion engine detonation as well as basic types of knock sensors and their design concepts. The advantages and disadvantages of the following piezoelectric sensors are analyzed: compression-type, bend-type, shear-type, and resonance- and semiresonance-type transducers. The authors describe techniques based on the calculation of electroelastic sensing elements for different kinds of deformations, such as compression-expansion, bending, and shear, and analyze forced oscillations of transducers with one or several degrees of freedom. 'Sensors' is the first self-contained series to deal with the whole area of sensors. It describes general aspects, technical and physical fundamentals, construction, function, applications and developments of the various types of sensors. This is the first of two volumes focusing on chemical and biochemical sensors providing definitions, typical examples of chemical and biochemical sensors and historical remarks. It describes chemical sensor technologies and interdisciplinary tasks in the design of chemical sensors. The major part consists of a description of basic sensors. They include electrolyte sensors, solid electrolyte sensors, electronic conductivity and capacitance sensors, field effect sensors, calorimetric sensors, optochemical sensors, and mass sensitive sensors. This volume is an indispensable reference work for both specialists and newcomers, researchers and developers. Automotive Electronic Systems deals with the technological principles and practices used in modern electronic automotive systems. The book includes how electronic control units function in the whole electronic system of the car. After a brief introduction to the mechanical parts of the car, the electronic and microprocessor systems are discussed. Although electronic devices are controlled either by analogue or digital systems, the trend is toward the use of digital. The basic principles of operation of a microprocessor are therefore given attention by the author. Cars depend heavily on sensors, thus, the importance of the different sensors, such as temperature sensors, direct air flow sensors, and turbine flowmeters, is comprehensively explained. Another part of the automotive system is the actuators or relays and both the solenoid and motors are discussed. The operations of the electrical system from the generator, electronic ignition system, to electronic fuel control systems are examined. The book explains the choking device in the electronic fuel control system that is needed when starting a car or the throttle butterfly potentiometer that monitors the movement of the plate in the carburetor every time the accelerator pedal is pushed down or released. The other electronic and computer controlled devices in today's modern cars such as on-board computers and electronic control of body systems are also comprehensively discussed. This book is helpful to car engine enthusiasts, car mechanics, car electricians, operators of car diagnostic equipment, and instructors of automotive electronic systems. Modern air and space craft demand a huge variety of sensing elements for detecting and controlling their behavior and operation. These sensors often differ significantly from those designed for applications in automobile, ship, railway, and other forms of transportation, and those used in industrial, chemical, medical, and other areas. This book offers insight into an appropriate selection of these sensors and describes their principles of operation, design, and achievable performance along with particulars of their construction. Drawn from the activities of the International Federation of Automatic Control (IFAC), especially its Aerospace Technical Committee, the book provides details on the majority of sensors for aircraft and many for spacecraft, satellites, and space probes. It is written by an international team of twelve authors representing four countries from Eastern and Western Europe and North America, all with considerable experience in aerospace sensor and systems design. Highlights include: • coverage of aerospace vehicle classification, specific design criteria, and the requirements of onboard systems and sensors; • reviews of airborne flight parameter sensors, weather sensors and collision avoidance devices; • discussions on the important role of inertial navigation systems (INS) and separate gyroscopic sensors for aerospace vehicle navigation and motion control; • descriptions of engine parameter information collection systems, including fuel quantity and consumption sensors, pressure pick-ups, tachometers, vibration control, and temperature sensors; and • descriptions and examples of sensor integration. This book is a collection of papers that originated as a Special Issue, focused on some recent advances related to fiber Bragg grating-based sensors and systems. Conventionally, this book can be divided into three parts: intelligent systems, new types of sensors, and original interrogators. The intelligent systems presented include evaluation of strain transition properties between cast-in FBGs and cast aluminum during uniaxial straining, multi-point strain measurements on a containment vessel, damage detection methods based on long-gauge FBG for highway bridges, evaluation of a coupled sequential approach for rotorcraft landing simulation, wearable hand modules and real-time tracking algorithms for measuring finger joint angles of different hand sizes, and glaze icing detection of 110 kV composite insulators.

New types of sensors are reflected in multi-addressed fiber Bragg structures for microwave–photonic sensor systems, its applications in load-sensing wheel hub bearings, and more complex influence in problems of generation of vortex optical beams based on chiral fiber-optic periodic structures. Original interrogators include research in optical designs with curved detectors for FBG interrogation monitors; demonstration of a filterless, multi-point, and temperature-independent FBG dynamical demodulator using pulse-width modulation; and dual wavelength differential detection of FBG sensors with a pulsed DFB laser.

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