

Advances In Gyroscope Technologies By Mario N Armenise

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 Proceedings of the International Joint Conference on Mechanics, Design Engineering & Advanced Manufacturing (JCM 2016), 14-16 September, 2016, Catania, Italy
 Principles and Applications
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Select Proceedings of TEMT 2019 Springer Nature

This proceedings volume gathers the outcomes of the International Conference on Engineering Research and Applications (ICERA 2019), which was held at Thai Nguyen University of Technology, Vietnam, on December 1-2, 2019 and provided an international forum for disseminating the latest theories and practices in engineering research and applications. The conference focused on original research work in a broad range of areas, including Mechanical Engineering, Materials and Mechanics of Materials, Mechatronics and Micromechatronics, Automotive Engineering, Electrical and Electronics Engineering, and Information and Communication Technology. By sharing the latest advances in these fields, the book will help academics and professionals alike to revisit their thinking on sustainable development.

Sensors, Micro- and Nanosensor Technology John Wiley & Sons

Kinematic Systems in Geodesy, Surveying, and Remote Sensing provides a state-of-the-art discussion on the use of the Global Positioning System (GPS) in combination with Inertial Navigation Systems (INS) for detailed sensing of the Earth's surface. Divided into two parts, the book first discusses GPS/INS with respect to theory and modelling, equipment trends, estimation methods and quality control, algorithms, and software trends. It then describes the applications of these kinematic systems to positioning and navigation, modelling and measurement of gravity, gravity gradiometry, and altitude. This collection of 63 presentations documents the symposium of the same name held in Banff, Alberta, September 1990. It is the sixth volume of the International Association of Geodesy Symposia series published by Springer-Verlag New York.

Practical Astrodynamics Springer

The book provides readers with a comprehensive overview of the state of the art in the field of gait and balance rehabilitation. It describes technologies and devices together with the requirements and factors to be considered during their application in clinical settings. The book covers physiological and pathophysiological basis of locomotion and posture control, describes integrated

approaches for the treatment of neurological diseases and spinal cord injury, as well as important principles for designing appropriate clinical studies. It presents computer and robotic technologies currently used in rehabilitation, such as exoskeleton devices, functional electrical stimulation, virtual reality and many more, highlighting the main advantages and challenges both from the clinical and engineering perspective. Written in an easy-to-understand style, the book is intended for people with different background and expertise, including medical and engineering students, clinicians and physiotherapists, as well as technical developers of rehabilitation systems and their corresponding human-compute interfaces. It aims at fostering an increased awareness of available technologies for balance and gait rehabilitation, as well as a better communication and collaboration between their users and developers.

Recent Advances in Mechanical Infrastructure Peter Peregrinus Limited

From the beginnings of the International Forum on Advanced Microsystems for Automotive Application (AMAA) to the recent 11th AMAA Forum, enormous progress has been made in reducing casualties, emissions and in increasing comfort and performance. In many cases

Microsystems provided key functions for this progress. This publication is a cut-out of new technological priorities in the area of microsystems-based smart devices, taking a mid-term perspective of future smart systems applications in automobiles.

Advanced Microsystems for Automotive Applications 2000 John Wiley & Sons

This landmark work – considered by many in the field to be THE reference on fiber-optic gyroscopes (FOGs) – provides you with a complete and thorough system analysis of the FOG and remains unmatched by any other single source. Now in its third edition, this fully updated and authoritative book: Gives you access to all the details you need to know about optics, single-mode fiber optics, and integrated optics to fully grasp the design rules of the fiber-optic gyroscope Helps you understand the concepts that have emerged as the preferred solutions to obtain a practical device Guides you through the advances that have occurred in the last seven years since the previous edition was published and how they are implemented in the current FOGs Drawing on 45 years of research and development, *The Fiber-Optic Gyroscope, Third Edition*, features new content on the relationship between white-noise power spectral density and random walk; Allan variance; testing with optical coherence domain polarimetry; a new simple mechanical model of the thermally induced stresses and related strains in the sensing coil; simple viewing of the reduction of the Shupe effect with symmetrical windings; and comments about dispersion and birefringence dispersion. The book contains over 350 illustrations (including 70 new figures) and many helpful appendixes, and gives you everything you need to understand the fiber gyro. The author is a leading expert in this field and is one of the early pioneers of the practical optical architecture and signal processing technique that is universally used in today's FOGs. This is a must-have reference for anyone working with FOGs, from students and academics learning about the device, to optoelectronics engineers and professionals needing to stay abreast of the current concepts and recent advances.

Mems for Automotive and Aerospace Applications Springer Science & Business Media

Nonlinear dynamics has been enjoying a vast development for nearly four decades resulting in a range of well established theory, with the potential to significantly enhance performance, effectiveness, reliability and safety of physical systems as well as offering novel technologies and designs. By critically appraising the state of the art, it is now time to develop design criteria and technology for new generation products/processes operating on principles of nonlinear interaction and in the nonlinear regime, leading to more effective, sensitive, accurate, and durable methods than what is currently available. This new approach is expected to radically influence the design, control and exploitation paradigms, in a magnitude of contexts. With a strong emphasis on experimentally calibrated and validated models, contributions by top-level international experts will foster future directions for the development of engineering technologies and design using robust nonlinear dynamics modelling and analysis.

Advances in Electromechanical Technologies Advances in Gyroscope Technologies

The book presents latest research-based innovations in the field of mechanical infrastructure presented in the International Conference on Recent Advances in Mechanical Infrastructure (ICRAM 2021). The broad research topics presented in this book are recent advances in thermal infrastructure: This includes aerodynamics, renewable energy, computational fluid dynamics, carbon dioxide capture and sequestration, energy and thermo-fluids, fluid dynamics, fuels and combustion, heat and mass transfer, internal combustion engine, and refrigeration and air conditioning. Recent advances in manufacturing infrastructure includes green manufacturing, instrumentation and control, material characterization, manufacturing techniques, rapid prototyping, polymers, and composites. Recent advances in infrastructure planning and design includes applied mechanics, bio-mechanics, computer-aided engineering design, finite element analysis, industrial tribology, machine design, robotics and automation, dynamics and vibration, industrial engineering, and optimization.

Advanced Location-Based Technologies and Services Springer Nature

This book is based on the 18 tutorials presented during the 28th workshop on Advances in Analog Circuit Design. Expert designers present readers with information about a variety of topics at the frontier of analog circuit design, including next-generation analog-to-digital converters, high-performance power management systems and technology considerations for advanced IC design. For anyone involved in analog circuit research and development, this book will be a valuable summary of the state-of-the-art in these areas. Provides a summary of the state-of-the-art in analog circuit design, written by experts from industry and academia; Presents material in a tutorial-based format; Includes coverage of next-generation analog-to-digital converters, high-

performance power management systems, and technology considerations for advanced IC design.

Trends in Sensor Markets CRC Press

This book introduces innovative and interdisciplinary applications of advanced technologies.

Featuring the papers from the 10th DAYS OF BHAAAS (Bosnian-Herzegovinian American Academy of Arts and Sciences) held in Jahorina, Bosnia and Herzegovina on June 21–24, 2018, it discusses a wide variety of engineering and scientific applications of the different techniques. Researchers from academic and industry present their work and ideas, techniques and applications in the field of power systems, mechanical engineering, computer modelling and simulations, civil engineering, robotics and biomedical engineering, information and communication technologies, computer science and applied mathematics.

Advances in Digital Technologies Springer Nature

This monograph collects and critically reviews the main results obtained by the scientific community in gyroscope technologies research field. It describes architectures, design techniques and fabrication technology of angular rate sensors proposed in literature. MEMS, MOEMS, optical and mechanical technologies are discussed together with achievable performance. The book also considers future research trends aimed to cover special applications. The book is intended for researchers and Ph.D. students interested in modelling, design and fabrication of gyros. The book may be a useful education support in some university courses focused on gyro technologies.

Concepts and Technology Springer Science & Business Media

Despite the enormous technical progress seen in the past few years, the maturity of indoor localization technologies has not yet reached the level of GNSS solutions. The 23 selected papers in this book present the recent advances and new developments in indoor localization systems and technologies, propose novel or improved methods with increased performance, provide insight into various aspects of quality control, and also introduce some unorthodox positioning methods.

Proceedings of the International Conference on Engineering Research and Applications, ICERA 2019 Springer

The theme of HumanCom and EMC is focused on the various aspects of human-centric computing for advances in computer science and its applications, embedded and multimedia computing and provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of human-centric computing. And the theme of EMC (Advanced in Embedded and Multimedia Computing) is focused on the various aspects of embedded system, smart grid, cloud and multimedia computing, and it provides an opportunity for academic, industry professionals to discuss the latest issues and progress in the area of embedded and multimedia computing. Therefore this book will include the various theories and practical applications in human-centric computing and embedded and multimedia computing.

The 6th International Conference on Emerging Internet, Data & Web Technologies (EIDWT-2018) MDPI

Since the publication of the first edition in 2004, advances in mobile devices, positioning sensors, WiFi fingerprinting, and wireless communications, among others, have paved the way for developing new and advanced location-based services (LBSs). This second edition provides up-to-date information on LBSs, including WiFi fingerprinting, mobile computing, geospatial clouds, geospatial data mining, location privacy, and location-based social networking. It also includes new chapters on application areas such as LBSs for public health, indoor navigation, and advertising. In addition, the chapter on remote sensing has been revised to address advancements.

Advanced Materials and Technologies for Micro/Nano-Devices, Sensors and Actuators Springer

MEMS for automotive and aerospace applications reviews the use of Micro-Electro-Mechanical-Systems (MEMS) in developing solutions to the unique challenges presented by the automotive and aerospace industries. Part one explores MEMS for a variety of automotive applications. The role of MEMS in passenger safety and comfort, sensors for automotive vehicle stability control applications and automotive tire pressure monitoring systems are considered, along with pressure and flow sensors for engine management, and RF MEMS for automotive radar sensors. Part two then goes on to explore MEMS for aerospace applications, including devices for active drag reduction in aerospace applications, inertial navigation and structural health monitoring systems, and thrusters for nano- and pico-satellites. A selection of case studies are used to explore MEMS for harsh environment sensors in aerospace applications, before the book concludes by considering the use of MEMS in space exploration and exploitation. With its distinguished editors and international team of expert contributors, MEMS for automotive and aerospace applications is

a key tool for MEMS manufacturers and all scientists, engineers and academics working on MEMS and intelligent systems for transportation. Chapters consider the role of MEMS in a number of automotive applications, including passenger safety and comfort, vehicle stability and control MEMS for aerospace applications are also discussed, including active drag reduction, inertial navigation and structural health monitoring systems Presents a number of case studies exploring MEMS for harsh environment sensors in aerospace

Advanced Technologies, Systems, and Applications III EPFL Press

This book provides a comprehensive treatment of the field of modern fiber optics, beginning with the basics of the field summarized in an introductory chapter. Expert contributors then topics such as polarization effects in optical fibers; photonic crystal fibers; highly-doped optical fibers; non-linear effects; amplification and lasing in optical fibers; supercontinuum generation, Rayleigh and inelastic scattering with applications to sensing; optical fiber point sensors, and polymer optical-fiber-based sensors.

Advanced Ceramic Technologies & Products IOS Press

This book highlights an analytical solution for the dynamics of axially symmetric rotating objects. It also presents the theory of gyroscopic effects, explaining their physics and using mathematical models of Euler's form for the motion of movable spinning objects to demonstrate these effects. The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal, common inertial, Coriolis forces, as well as the change in their angular momentum. These torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects, like rings, cones, spheres, paraboloids and propellers of different designs. Lastly, the mathematical models for the gyroscopic effects are validated by practical tests.

Advances in Analog Circuit Design 2019 Springer Science & Business Media

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. With the international conference AMAA 2002, 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.

Research and Technology Program Digest Springer

Covers the latest developments in PNT technologies, including integrated satellite navigation, sensor systems, and civil applications Featuring sixty-four chapters that are divided into six parts, this two-volume work provides comprehensive coverage of the state-of-the-art in satellite-based position, navigation, and timing (PNT) technologies and civilian applications. It also examines alternative navigation technologies based on other signals-of-opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications. Volume 1 of Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications contains three parts and focuses on the satellite navigation systems, technologies, and engineering and scientific applications. It starts with a historical perspective of GPS development and other related PNT development. Current global and regional navigation satellite systems (GNSS and RNSS), their inter-operability, signal quality monitoring, satellite orbit and time synchronization, and ground- and satellite-based augmentation systems are examined. Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath-rich urban environment, in handling spoofing and interference, and in ensuring PNT integrity are addressed. A section on satellite navigation for engineering and scientific applications finishes off the volume. Volume 2 of Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and commercial applications. It looks at PNT using various radio signals-of-opportunity, atomic clock, optical, laser, magnetic field, celestial, MEMS and inertial sensors, as well as the concept of navigation from Low-Earth Orbiting (LEO) satellites. GNSS-INS integration, neuroscience of navigation, and animal navigation are also covered. The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping, precision agriculture, wearable systems, automated driving, train control, commercial unmanned aircraft systems, aviation, and navigation in the unique Arctic environment. In addition, this text: Serves as a complete reference and handbook for professionals and students

interested in the broad range of PNT subjects Includes chapters that focus on the latest developments in GNSS and other navigation sensors, techniques, and applications Illustrates interconnecting relationships between various types of technologies in order to assure more protected, tough, and accurate PNT Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications will appeal to all industry professionals, researchers, and academics involved with the science, engineering, and applications of position, navigation, and timing technologies. pnt21book.com
[Advanced Display Technology](#) Springer Science & Business Media

Easy access to digital information in every form is something which has become indispensable given our ever-increasing reliance on digital technology. But such access would not be possible without the reliable and effective infrastructure which has led to the large-scale development of web technologies. This book presents the 27 papers delivered at the 6th International Conference on Applications of Digital Information and Web Technologies (ICADIWT), held in February 2015, at

the University of Macau, Macau. The book is divided into seven sections: Internet communication, human-computer interaction, adaptive web applications, data communication, cloud computing, systems engineering, and data mining. Since each paper is a survey contributed by different experts from very many countries, this book can be seen as a collection of the current research trends in the field and hence it will be of interest to all those whose work involves digital information and web technology.

Integrated Satellite Navigation, Sensor Systems, and Civil Applications Springer Nature
Microsystems technologies have found their way into an impressive variety of applications, from mobile phones, computers, and displays to smart grids, electric cars, and space shuttles. This multidisciplinary field of research extends the current capabilities of standard integrated circuits in terms of materials and designs and complements them by creating innovative components and smaller systems that require lower power consumption and display better performance. Novel Advances in Microsystems Technologies and their Applications delves into the state of the art and the applications of microsystems and microelectronics-related technologies. Featuring

contributions by academic and industrial researchers from around the world, this book: Examines organic and flexible electronics, from polymer solar cell to flexible interconnects for the co-integration of micro-electromechanical systems (MEMS) with complementary metal oxide semiconductors (CMOS) Discusses imaging and display technologies, including MEMS technology in reflective displays, the fabrication of thin-film transistors on glass substrates, and new techniques to display and quickly transmit high-quality images Explores sensor technologies for sensing electrical currents and temperature, monitoring structural health and critical industrial processes, and more Covers biomedical microsystems, including biosensors, point-of-care devices, neural stimulation and recording, and ultra-low-power biomedical systems Written for researchers, engineers, and graduate students in electrical and biomedical engineering, this book reviews groundbreaking technology, trends, and applications in microelectronics. Its coverage of the latest research serves as a source of inspiration for anyone interested in further developing microsystems technologies and creating new applications.

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