

Allan Variance Analysis Of Random Noise Modes In Gyroscopes

Vibratory Gyroscopes Based on Micro-Electro-Mechanical and non-Micro-Electro-Mechanical Systems Valeri V. Chikovani

2023-12-15 This book provides a unified approach for the two versions of Coriolis vibratory gyroscopes: Micro-Electro-Mechanical System (MEMS) and non-MEMS. It describes a new, differential mode of operation, analyzing the new triple mode gyro—rate, rate-integrating, and differential. The latter provides the gyro with an increased versatility by providing the maximum possible accuracy under changeable motion parameters and environmental conditions. The book also presents computer simulation, experiments, and test results on the rejection of external disturbances, and considers the fabrication processes of MEMS, metallic and quartz resonators. It will interest researchers, scientists, engineers, and students specializing in the field of inertial sensors, as well as engineers of digital control systems, and inertial sensors test-engineers. It can also be used as a reference book when designing vibratory gyros.

The Fiber-Optic Gyroscope, Third Edition Herve C. Lefevre 2022-01-31 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.

Advances in Intelligent Systems and Computing IV Natalya Shakhovska 2019-11-01 This book reports on new theories and applications in the field of intelligent systems and computing. It covers computational and artificial intelligence methods, as well as advances in computer vision, current issues in big data and cloud computing, computation linguistics, and cyber-physical systems. It also reports on important topics in intelligent information management. Written by active researchers, the respective chapters are based on selected papers presented at the XIV International Scientific and Technical Conference on Computer Science and Information Technologies (CSIT 2019), held on September 17-20, 2019, in Lviv, Ukraine. The conference was jointly organized by the Lviv Polytechnic National University, Ukraine, the Kharkiv National University of Radio Electronics, Ukraine, and the Technical University of Lodz, Poland, under patronage of Ministry of Education and Science of Ukraine. Given its breadth of coverage, the

book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems, and is sure to foster new discussions and collaborations among different groups.

Fiber Optic and Laser Sensors 1993

Government Reports Announcements & Index 1978-06

Whole-Angle MEMS Gyroscopes Doruk Senkal 2020-06-16 Presents the mathematical framework, technical language, and control systems know-how needed to design, develop, and instrument micro-scale whole-angle gyroscopes This comprehensive reference covers the technical fundamentals, mathematical framework, and common control strategies for degenerate mode gyroscopes, which are used in high-precision navigation applications. It explores various energy loss mechanisms and the effect of structural imperfections, along with requirements for continuous rate integrating gyroscope operation. It also provides information on the fabrication of MEMS whole-angle gyroscopes and the best methods of sustaining oscillations. Whole-Angle Gyroscopes: Challenges and Opportunities begins with a brief overview of the two main types of Coriolis Vibratory Gyroscopes (CVGs): non-degenerate mode gyroscopes and degenerate mode gyroscopes. It then introduces readers to the Foucault Pendulum analogy and a review of MEMS whole angle mode gyroscope development. Chapters cover: dynamics of whole-angle coriolis vibratory gyroscopes; fabrication of whole-angle coriolis vibratory gyroscopes; energy loss mechanisms of coriolis vibratory gyroscopes; and control strategies for whole-angle coriolis vibratory gyroscopes. The book finishes with a chapter on conventionally machined micro-machined gyroscopes, followed by one on micro-wineglass gyroscopes. In addition, the book: Lowers barrier to entry for aspiring scientists and engineers by providing a solid understanding of the fundamentals and control strategies of degenerate mode gyroscopes Organizes mode-matched mechanical gyroscopes based on three classifications: wine-glass, ring/disk, and mass spring mechanical elements Includes case studies on conventionally micro-machined and 3-D micro-machined gyroscopes Whole-Angle Gyroscopes is an ideal book for researchers, scientists, engineers, and college/graduate students

involved in the technology. It will also be of great benefit to engineers in control systems, MEMS production, electronics, and semi-conductors who work with inertial sensors.

Investigation of Allan Variance for Determining Noise Spectral Forms with Application to Microwave Radiometry National Aeronautics and Space Administration (NASA) 2018-07-08 An investigation of the Allan variance method as a possible means for characterizing fluctuations in radiometric noise diodes has been performed. The goal is to separate fluctuation components into white noise, flicker noise, and random-walk noise. The primary means is by discrete-time processing, and the study focused primarily on the digital processes involved. Noise satisfying the requirements was generated by direct convolution, fast Fourier transformation (FFT) processing in the time domain, and FFT processing in the frequency domain. Some of the numerous results obtained are presented along with the programs used in the study. Stanley, William D. Unspecified Center...

Advances in Guidance, Navigation and Control Liang Yan 2025-02-27 This book features the latest theoretical results and techniques in the field of guidance, navigation, and control (GNC) of vehicles and aircrafts. It covers a wide range of topics, including but not limited to, intelligent computing communication and control; new methods of navigation, estimation, and tracking; control of multiple moving objects; manned and autonomous unmanned systems; guidance, navigation, and control of miniature aircraft; and sensor systems for guidance, navigation and control, etc. Presenting recent advances in the form of illustrations, tables, and text, it also provides detailed information of a number of the studies, to offer readers insights for their own research. In addition, the book addresses fundamental concepts and studies in the development of GNC, making it a valuable resource for both beginners and researchers wanting to further their understanding of guidance, navigation, and control.

Micromachining Technology for Micro-optics and Nano-optics 2004
Science Abstracts 1993

Dual-Polarization Two-Port Fiber-Optic Gyroscope Zinan Wang

2017-03-23 This thesis demonstrates and investigates novel dual-polarization interferometric fiber-optic gyroscope (IFOG) configurations, which utilize optical compensation between two orthogonal polarizations to suppress errors caused by polarization nonreciprocity. Further, it provides a scheme for dual-polarization two-port IFOGs and details their unique benefits. Dual-polarization IFOGs break through the restriction of the "minimal scheme," which conventional IFOGs are based on. These innovative new IFOGs have unique properties: They require no polarizer and have two ports available for signal detection. As such, they open new avenues for IFOGs to achieve lower costs and higher sensitivity.

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