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*An Optical Signal
Processing Model for
the Interferometric
Fiber Optic Gyro*

*Volume 1,
Deterministic Model*

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National Security
Research Division

Optical Signal Processing Model For The Interferometric Fiber Optic Gyro Vol 1 Deterministic Model

Jianjun Gao



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An Optical Signal Processing Model for the Interferometric Fiber Optic Gyro: Deterministic model Joseph M. Aein, 1995

This report presents the results of a communication theoretic model used to analyze the operation of Interferometric Fiber Optic Gyroscopes IFOG The IFOG is an all solid state rotation rate sensor employed in miniature inertial measurement units MIMU The IFOG can achieve a navigation grade of performance 0.01 degree hour drift rate and offers the considerable advantage of reducing instrument costs by a factor of two or more over the current ring laser gyroscope RLG technology base A simplified classical propagation model is used to describe the optical beams employed Optical signal modulation is impressed with the following goals 1 increase the linearity of the rotation rate measurement and 2 mitigate the deleterious effects of the optical scatter noise unavoidably generated by the desired light beams as they traverse the optical pathways of the IFOG This report deals with goal 1 above The following are analyzed 1 AC bias modulation used to linearize the IFOG instrument 2 closed loop feedback operation to extend the dynamic range and 3 serrodyne operation The analysis establishes the performance relationships among the appropriate optical signal parameters and allows for their optimization

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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 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 **The Fiber-Optic Gyroscope, Second Edition** Herve C. Lefevre,2014-10-01 Written by one of the field s leading experts this landmark reference presents a thorough system analysis of the fiber optic gyroscope FOG describing the concepts that have emerged as the preferred solutions for obtaining a practical device This book s first edition was published in the early 1990 s If the basic design rules of the FOG have remained unchanged the technology has certainly matured and the expectations presented in the first edition have been largely exceeded This second edition is updated throughout featuring new content on Allan variance testing with optical coherence domain polarimetry the Shupe effect and rare Earth doped fiber ASE sources In addition brand new comprehensive appendixes cover the optics single mode fiber optics and integrated optics necessary to understand the fiber gyro and provide an appropriate vocabulary for communicating with electronic component designers

Fiber Optic Gyros Eric Udd,1987 **Fiber Optic Gyros** Eric Udd,1992 *Modeling an Interferometric Fiber Optic Gyroscope* Jorge M. Martin,2004-10-01 U In this paper we derive an expression for the output intensity of a general Interferometric Fiber Optic Gyroscope IFOG The light source is assumed to be non monochromatic with an arbitrary frequency distribution function belonging to L2 R This result is expanded and expressed in terms of the parameters involved in the definition of each of the four entries of the clockwise Jones matrix of a generic IFOG with an even frequency distribution We obtain an expression for the Sagnac phase shift error and compute it for a Gaussian rectangular and triangular frequency distribution function The clockwise loop Jones matrix of a fairly general IFOG model is computed Matlab programs for computing the output intensity and Sagnac phase shift error are also included *Fiber Optic Gyros* Eric Udd,Hervé C. Lefèvre,Kazuo Hotate,1996

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