

Into Accelerometer

Alasdair Allan

MEMS Accelerometers Mahmoud Rasras, Ibrahim (Abe) M. Elfadel, Ha Duong Ngo, 2019-05-27 Micro-electro-mechanical system (MEMS) devices are widely used for inertia, pressure, and ultrasound sensing applications. Research on integrated MEMS technology has undergone extensive development driven by the requirements of a compact footprint, low cost, and increased functionality. Accelerometers are among the most widely used sensors implemented in MEMS technology. MEMS accelerometers are showing a growing presence in almost all industries ranging from automotive to medical. A traditional MEMS accelerometer employs a proof mass suspended to springs, which displaces in response to an external acceleration. A single proof mass can be used for one- or multi-axis sensing. A variety of transduction mechanisms have been used to detect the displacement. They include capacitive, piezoelectric, thermal, tunneling, and optical mechanisms. Capacitive accelerometers are widely used due to their DC measurement interface, thermal stability, reliability, and low cost. However, they are sensitive to electromagnetic field interferences and have poor performance for high-end applications (e.g., precise attitude control for the satellite). Over the past three decades, steady progress has been made in the area of optical accelerometers for high-performance and high-sensitivity applications but several challenges are still to be tackled by researchers and engineers to fully realize opto-mechanical accelerometers, such as chip-scale integration, scaling, low bandwidth, etc. This Special Issue on

MEMS Accelerometers seeks to highlight research papers, short communications, and review articles that focus on: Novel designs, fabrication platforms, characterization, optimization, and modeling of MEMS accelerometers. Alternative transduction techniques with special emphasis on opto-mechanical sensing. Novel applications employing MEMS accelerometers for consumer electronics, industries, medicine, entertainment, navigation, etc. Multi-physics design tools and methodologies, including MEMS-electronics co-design. Novel accelerometer technologies and 9DoF IMU integration. Multi-accelerometer platforms and their data fusion.

Basic Sensors in IOS Alasdair Allan, 2011-07-29
Programming the accelerometer, gyroscope, camera, and magnetometer--Cover.

Basic Sensors in iOS Alasdair Allan, 2011-07-22
What really sets the iPhone apart from laptops and PCs is its use of onboard sensors, including those that are location-enabled. This concise book takes experienced iPhone and Mac developers on a detailed tour of iPhone and iPad hardware by explaining how these sensors work, and what they're capable of doing. With this book, you'll build sample applications for each sensor, and learn hands-on how to take advantage of the data each sensor produces. You'll gain valuable experience that you can immediately put to work inside your own iOS applications for the iPhone, iPod touch, and iPad. This book helps you focus on: Camera: learn how to take pictures and video, create video thumbnails, customize video, and save media to the photo album Audio: use the media

picker controller and access the iPod music library in your own application, and enable your app to record and play sampled audio
Accelerometer: write an application that uses this sensor to determine device orientation
Magnetometer: learn how this sensor verifies compass headings
Core Motion: use this framework to receive motion data from both the accelerometer and the vibrational gyroscope
This short book is part of a collection that will, along with new material, be compiled into a larger book, *iOS Sensor Programming*. The other books in this collection are *Augmented Reality in iOS*, *Geolocation in iOS*, and *iOS Sensor Apps with Arduino*.

MEMS Silicon Oscillating Accelerometers and Readout Circuits Xu, Yong Ping, 2019-02-12
Most MEMS accelerometers on the market today are capacitive accelerometers that are based on the displacement sensing mechanism. This book is intended to cover recent developments of MEMS silicon oscillating accelerometers (SOA), also referred to as MEMS resonant accelerometer. As contrast to the capacitive accelerometer, the MEMS SOA is based on the force sensing mechanism, where the input acceleration is converted to a frequency output. *MEMS Silicon Oscillating Accelerometers and Readout Circuits* consists of six chapters and covers both MEMS sensor and readout circuit, and provides an in-depth coverage on the design and modelling of the MEMS SOA with several recently reported prototypes. The book is not only useful to researchers and engineers who are familiar with the topic, but also appeals to those who have

general interests in MEMS inertial sensors. The book includes extensive references that provide further information on this topic.

Accelerometers Paulo Sérgio de Brito

André, Humberto Varum, 2013-07 This book presents a comprehensive review of accelerometers focusing on the basic operation principles, structure and applications. The review covers accelerometers research studies performed by authors across the globe in the last decade, including recent research in the development of new accelerometers and their applications in several areas, such as civil engineering and health sciences. This edited book includes state-of-the-art accelerometers research and technologies for relevant applications. It is organised in eleven chapters describing leading-edge research in a cross-section of fields including: optical sensors development; motion capture; applications of accelerometers in the structural health monitoring of buildings, bridges and other types of structures; characterisation of dynamic properties of structures; human body and physiological monitoring; and the role of accelerometers in the measurement of children's physical activity.

Crystal Accelerometer Response to Mechanical Shock Impulses A. F. Lawrence, 1960

Inertial MEMS Volker Kempe, 2011-02-17 A practical and systematic overview of the design, fabrication and test of MEMS-based inertial sensors, this comprehensive and rigorous guide shows you how to analyze and transform application requirements into practical designs, and helps you to avoid potential pitfalls and to cut design

time. With this book you'll soon be up to speed on the relevant basics, including MEMS technologies, packaging, kinematics and mechanics, and transducers. You'll also get a thorough evaluation of different approaches and architectures for design and an overview of key aspects of testing and calibration. Unique insights into the practical difficulties of making sensors for real-world applications make this up-to-date description of the state of the art in inertial MEMS an ideal resource for professional engineers in industry as well as students looking for a complete introduction to the area.

Piezoelectric Accelerometers with Integral Electronics Felix Levinzon, 2014-08-06 This book provides an invaluable reference to Piezoelectric Accelerometers with Integral Electronics (IEPE). It describes the design and performance parameters of IEPE accelerometers and their key elements, PE transducers and FET-input amplifiers. Coverage includes recently designed, low-noise and high temperature IEPE accelerometers. Readers will benefit from the detailed noise analysis of the IEPE accelerometer, which enables estimation of its noise floor and noise limits. Other topics useful for designers of low-noise, high temperature silicon-based electronics include noise analysis of FET amplifiers, experimental investigation and comparison of low-frequency noise in different JFETs and MOSFETs, and ultra-low-noise JFETs (at level of $0.6 \text{ nV}/\sqrt{\text{Hz}}$). The discussion also includes ultra-low-noise (at level of $3 \text{ ng}/\sqrt{\text{Hz}}$) seismic IEPE accelerometers and high temperature (up to 175°C) triaxial and single axis

miniature IEPE accelerometers, along with key factors for their design. • Provides a comprehensive reference to the design and performance of IEPE accelerometers, including low-noise and high temperature IEPE sensors; • Includes noise analysis of the IEPE accelerometer, which enables estimation of the its noise floor and noise limits; • Describes recently design of ultra-low-noise (at level of $3 \text{ ng}/\sqrt{\text{Hz}}$) IEPE seismic accelerometers and high temperature (up to 175°C) triaxial and single axis miniature IEPE accelerometers; • Compares low-frequency noise in different JFETs and MOSFETs including measurement results of ultra-low-noise (at level of $0.6 \text{ nV}/\sqrt{\text{Hz}}$) JFET; • Presents key factors for design of low-noise and high temperature IEPE accelerometer and their electronics.

An Experimental Technique for the Evaluation of Thermal Transient Effects on Piezoelectric Accelerometers Carol F. Vezzetti, Paul S. Lederer, 1975

Considerations in Computing the Useful Frequency Range of Piezoelectric Accelerometers Nathan Newman, 1969 The paper analyzes two lumped-parameter models for computing the usable frequency range of piezoelectric accelerometers. The analyses indicate why application of an electrical excitation to the piezoelectric element of a mounted pickup does not, in general, give the same result as application of a mechanical acceleration to the structure on which the pickup is mounted. Tabular results of the computations for various sets of parameters indicate those cases for which the

electrical drive will give resonant frequency values within 2% of those for the pickup mounted on a vibrating structure. For these parameter sets, the electrical drive can be used as a reliable substitute.(Author).

Pervasive Computing Alois Ferscha, Friedemann Mattern, 2004-04-07 nd Welcome to the proceedings of PERVASIVE 2004, the 2 International Conference on Pervasive Computing and the premier forum for the presentation and appraisal of the most recent and most advanced research results in all foundational and applied areas of pervasive and ubiquitous computing. Considering the half-life period of technologies and knowledge this community is facing, PERVASIVE is one of the most vibrant, dynamic, and evolutionary among the computer-science-related symposia and conferences. The research challenges, efforts, and contributions in pervasive computing have experienced a breathtaking acceleration over the past couple of years, mostly due to technological progress, growth, and a shift of paradigms in computer science in general. As for technological advances, a vast manifold of tiny, embedded, and autonomous computing and communication systems have started to create and populate a pervasive and ubiquitous computing landscape, characterized by paradigms like autonomy, context-awareness, spontaneous interaction, seamless integration, self-organization, ad hoc networking, invisible services, smart artifacts, and everywhere interfaces. The maturing of wireless networking, miniaturized information-processing possibilities induced by novel microprocessor technologies, low-

power storage systems, smart materials, and technologies for motors, controllers, sensors, and actuators envision a future computing scenario in which almost every object in our everyday environment will be equipped with embedded processors, wireless communication facilities, and embedded software to perceive, perform, and control a multitude of tasks and functions.

Orbital Bias Determination for Accelerometers on Atmosphere Explorer Satellites Frank A.

Marcos, Robert W. Fioretti, 1977 An extensive amount of neutral density data has been obtained from the highly successful accelerometer experiments on the Atmosphere Explorer -C, -D, and -E satellites. The accelerometer is electrostatically suspended and force rebalanced. Ground calibration requires sufficient suspension force to operate in the earth's 1g field. An important characteristic of the instrument is its null bias which is proportional to the suspension voltage. Null bias error is reduced when the instrument is in orbit by reducing the suspension force. For despun orbit data, accelerations due to bias must be separated from those due to drag for accurate density computation. In the elliptical orbit phase of the AE missions, bias values have been deduced from the sensor output obtained at altitudes where aerodynamic drag is negligible. Bias measurements obtained from all three satellites are summarized. A bias temperature coefficient is also calculated. Results in this report show that orbital values differ from a simple extrapolation of the ground calibration data. This difference must be known to obtain accurate density data above about 200 km.

The orbital bias results are applied to improve the accuracy of despun orbit measurements made during both the elliptical and circular orbit phases of the AE mission. Methods of extending bias determination to circular orbit data are discussed. (Author).

Application of the Satellite Triaxial Accelerometer Experiment to Atmospheric Density and Wind Studies Frank A. Marcos, 1982 A new satellite triaxial accelerometer system has been developed. This instrument has been flight-tested on three-axis stabilized satellites and has demonstrated the capability to accurately measure accelerations in the satellite's in-track, cross-track, and radial directions. The in-track data provide direct determination of atmospheric density. These data, obtained during a period of high solar flux, supplement the extensive set of measurements obtained by other accelerometer experiments during low solar flux conditions. The cross-track and radial results permit, for the first time, large-scale measurements of the zonal and, possibly, radial components of neutral atmospheric winds. These simultaneous wind and density data provide an extremely valuable input for the understanding of dynamic processes in the atmosphere and for the improvement of atmospheric models.

The Influence of Fixture Stress Concentrations on Ring Accelerometers James A. Nagy, 1968

Development of an Automatic Recording Accelerometer Albert London, 1945

Accelerometer Calibration with the Earth's Field Dynamic Calibrator John S. Hilten, 1970 The paper

describes a simple device for the precise dynamic calibration of certain accelerometers at low frequencies. Calibration of an accelerometer is achieved by rotating the instrument in the earth's gravitational field at a number of constant rotational speeds. (Author).

Distributed Computing, Artificial Intelligence, Bioinformatics, Soft Computing, and Ambient Assisted Living Sigeru Omatu, Miguel P.

Rocha, Florentino Fdez Riverola, Jose Bravo, Emilio Corchado, Juan Manuel Corchado Rodríguez, Andrés Bustillo, 2009-06-08 This book constitutes the refereed proceedings of the 10th International Work-Conference on Artificial Neural Networks, IWANN 2009, held in Salamanca, Spain in June 2009. The 167 revised full papers presented together with 3 invited lectures were carefully reviewed and selected from over 230 submissions. The papers are organized in thematic sections on theoretical foundations and models; learning and adaptation; self-organizing networks, methods and applications; fuzzy systems; evolutionary computation and genetic algorithms; pattern recognition; formal languages in linguistics; agents and multi-agent on intelligent systems; brain-computer interfaces (bci); multiobjective optimization; robotics; bioinformatics; biomedical applications; ambient assisted living (aal) and ambient intelligence (ai); other applications.

A Triaxial Accelerometer Module for Vestibular Application W. Carroll Hixson, 1968 A brief description is given of a 6-channel instrumentation module developed for collection of preliminary acceleration data for the a priori

determination of optimal characteristics for transducers to be installed permanently on various aircraft and man-rated research devices for the measurement of vestibular-significant acceleration stimuli. The module utilizes three linear and three angular accelerometers, all of the standard, commercially available, servo type, to measure the triaxial linear and triaxial angular accelerations, along and about, respectively, the roll, pitch, and yaw axes of the test device or vehicle. Signal-conditioning amplifiers equipped with feedback circuitry to facilitate in-flight adjustment of gain and high-frequency rolloff characteristics are provided for optimal utilization of the dynamic range capabilities of magnetic tape data storage recorders. Though the instrument is used primarily to collect acceleration data in the 0-5 cps spectrum, the linear channels can also be used in determining vibration levels in the 0-100 cps range. (Author).

Wave Structures in Thermospheric Density from Satellite Electrostatic Triaxial Accelerometer Measurements Jeffrey M. Forbes, 1987 Density data from the Satellite Electrostatic Triaxial Accelerometer (SETA) experiment were spectrally analyzed by the Maximum Entropy Method (MEM). The purpose is to make available a technique by which the occurrence of wavelike structures in thermospheric densities can be quantitatively analyzed and correlated with various geophysical conditions, including the deposition of energy at high latitudes during geomagnetically disturbed conditions. Spectra were computed for typical magnetically quiet and active days during July

1983, and the relative occurrence of spectral peaks in wavelength ranges of large-scale (hundreds to thousands of kilometers) and medium-scale (tens to hundreds of kilometers) traveling ionospheric disturbances is examined as a function of local time and latitude.

The High Resolution Accelerometer Package (HiRAP) Flight Experiment Summary for the First 10 Flights Robert C. Blanchard, 1992

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



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

















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