Gradiometer

Kai Yuen Wang

Gravity, Magnetic and Electromagnetic Gradiometry Alexey V Veryaskin, 2018-02-20 Gradiometry is a multidisciplinary area that combines theoretical and applied physics, ultra-low noise electronics, precision engineering, and advanced signal processing. All physical fields have spatial gradients that fall with distance from their sources more rapidly than the field strength itself. This makes the gradient measurements more difficult. However, there has been a considerable investment, both in terms of time and money, into the development of various types of gradiometers driven by the extremely valuable type of information that is contained in gradients. Applications include the search for oil, gas, and mineral resources, GPS-free navigation, defence, space missions, medical research, and some other applications. The author describes gravity gradiometers, magnetic gradiometers, and electromagnetic (EM) gradiometers. The first two types do not require any active sources of the primary physical fields whose gradients are measured, such as gravity field and ambient magnetic field. EM gradiometers do require a primary EM field, pulsed, or sinusoidal, which propagates through media and creates a secondary EM field. The latter one contains information about the non uniformness of electromagnetically active media such as conductivity and magnetic permeability contrasts. These anomalies are the boundaries of mineral deposits, oil and gas traps, underground water reserves, buried artifacts, unexploded ordnance (UXO), nuclear submarines, and even cancerous human tissue. This book provides readers with a comprehensive introduction, history, potential applications, and current developments in relation to some of the most advanced technologies in the 21st Century. Most of the developments are strictly controlled by Defence Export Control rules and regulations, introduced in all developed countries that typically require permission to transfer relevant information from one country to another. The book is based on the materials that have been available in public domain such as scientific journals, conferences, extended abstracts, and online presentations. In addition, medical applications of EM gradiometers are exempt from any control, and some new results relevant to breast cancer early detection research are published in this book for the first time.

Gradiometer Applications and Status of Sensor Development David Anthony,1971 A number of feasible terrestrial and space applications exist for a sensor capable of measuring gravity gradients from a stationary or moving base. These applications include: aerial, marine, and satellite gravimetry; navigation and guidance; mass detection for location of tunnels and for inspection and evaluation of containers, satellites, and on-site missiles; lunar and

planetary potential measurements, and asteroid mass measurements. Several different gradiometer designs can be used for these applications and are briefly reviewed. (Author).

Study to Develop Gradiometer Techniques Stanford University. Department of Aeronautics and Astronautics, Daniel B. DeBra, 1977 The primary goal of the current gravity gradiometer research at Stanford has been to establish the feasibility of using a gravity gradiometer with 1 E accuracy, as the primary sensor in various applications. The two applications considered here in detail are geodesy missions and inertial navigation systems. Preliminary sections on gravity models and gravity gradiometer bias estimation are also included. (Author).

Applications of Superconductivity H. Weinstock,2013-03-09 This book, in essence the proceedings of a NATO Advanced Study Institute with the same title, is designed to provide in-depth coverage of many, but not all, of the major current applications of superconductivity, and of many that still are being developed. It will be of value to scientists and engineers who have interests in the research and production aspects of the technology, as well as in the applications themselves. The first three chapters (by Clarke, Vrba and Wikswo) are devoted to an understanding of the principles, fabrication and uses of SQUID magnetometers and gradiometers, with the greatest emphasis on biomagnetism and nondestructive evaluation (NDE). For the most part, traditional low-temperature superconductor (LTS) SQUIDs are used, but particularly for NDE, high-temperature superconductor (HTS) SQUIDs are proving useful and often more convenient. The succeeding three chapters (by Przybysz, Likharev and Chaloupka) cover broader aspects of superconducting electronics. The first two of these deal primarily with digital L TS circuits, while the third discusses in great detail passive component applications using HTS materials. Currently, HTS filters are undergoing intense J3-site testing at cellular telephone base stations. While it is clear that HTS filters outperform conventional filters in reducing signal loss and allowing for more channels in a given bandwidth, it isn't yet certain that the cellular telephone industry sees sufficient economic benefits to make a firm decision to use HTS filters universally in its systems. If this application is generally adapted, the market for these filters should be quite large.

A Magnetic Gradiometer Irwin Roman, Thomas C. Sermon, Clarence Otto Swanson, 1934

Review of Progress in Quantitative Nondestructive Evaluation Donald O. Thompson, Dale E. Chimenti, 2013-11-11 These Proceedings, consisting of Parts A and B, contain the edited versions of most of the papers presented at the annual Review of Progress in Quantitative Nondestructive Evaluation

held at Bowdoin College, Brunswick, Maine on July 28 to August 2, 1996. The Review was organized by the Center for NDE at Iowa State University, in cooperation with the American Society of Nondestructive Testing, the Ames Laboratory of the USDOE, the Federal Aviation Administration, the National Institute of Standardsand Technology, and the National Science Foundation Industry!University Cooperative Research Centers pro gram. This year's Review of Progress in QNDE was attended by approximately 400 participants from the U.S. and many foreign countries who presented over 350 papers. As usual, the meetingwas divided into 36 sessions, with as many as four sessions running concurrently. The Review covered all phases of NDE research and development from fundamental investigations to engineering applications or inspection systems, and it included many important methods of inspection techniques from acoustics to x-rays. In the last eight to ten years, the Review has stabilized at about its current size, which most participants seem to agree is large enough to permit a full-scale overview of the latest developments, but still small enough to retain the collegial atmosphere which has marked the Review since its inception.

Measuring Attitude with a Gradiometer National Aeronautics and Space Administration (NASA),2018-07-08 Static attitude estimation and dynamic attitude estimation are used to describe a gradiometer composed of a number of accelerometers that are used to measure a combination of the local gravity gradient and instrument rotation effects. After a series of measures to isolate the gradient, a global mesh of measurements can be obtained that determine the planetary external gravity potential. Orbital and spacecraft models are developed to determine if, when the gravity potential is known, the same measurements, unsupported by any other information can be used to infer the spacecraft attitude. Sonnabend, David and Born, George H. Unspecified Center...

Development of a Sensitive Superconducting Gravity Gradiometer for Geological and Navigational Applications H. J. Paik, 1986
Superconducting Gravity Gradiometer Mission Samuel Harold Morgan, Ho Jung Paik, 1988

Spaceborne Gravity Gradiometers William C. Wells,1984

Modeling and Error Analysis of a Superconducting Gravity Gradiometer Kai Yuen Wang,1979 The demand for higher accuracy in inertial navigation systems has pushed the development of more accurate accelerometers and gyroscopes. Inertial navigation systems (INS) can now be built with error stemming mainly from the uncertainty of the vertical along the flight path (Savet, 1970). The deflection of the vertical is produced by mass anomalies on

the surface of the earth. The error can be corrected by measuring the gravity gradient and using it in the navigation equations. This possibility has generated intensive interest and research in the field of gravity gradiometry. The lower bound of the resolution of room temperature gravity gradiometers is thermal (Brownian) noise. By lowering the temperature to 4 K, the noise level is smaller by an order of magnitude. A comparatively simple gravity gradiometer can be built using some newly developed superconducting technology. (Author).

Signal and Information Processing, Networking and Computers Yue Wang, Yuyang Liu, Jiaqi Zou, Mengyao Huo, 2023-02-23 This book collects selected papers from the 10th Conference on Signal and Information Processing, Networking and Computers held in Xi'Ning, China held in July, 2022. The book focuses on the current works of information theory, communication system, computer science, aerospace technologies and big data and other related technologies. People from both academia and industry of this field can contribute and find their interests from the book.

The SQUID Handbook John Clarke, Alex I. Braginski, 2006-03-06 This two-volume handbook offers a comprehensive and well coordinated presentation of SQUIDs (Superconducting Quantum Interference Devices), including device fundamentals, design, technology, system construction and multiple applications. It is intended to bridge the gap between fundamentals and applications, and will be a valuable textbook reference for graduate students and for professionals engaged in SQUID research and engineering. It will also be of use to specialists in multiple fields of practical SQUID applications, from human brain research and heart diagnostics to airplane and nuclear plant testing to prospecting for oil, minerals and buried ordnance. The first volume contains chapters presenting the theory of SQUIDs, their fabrication from low- and high-temperature superconductors, the necessary readout electronics, and the design and performance of practical direct current (dc) and radio-frequency (rf) SQUIDs. This volume concludes with an overview of the most important SQUID system issues. An appendix summarizes briefly the foundations of superconductivity that are necessary to understand SQUIDs. A glossary and tables of units and constants are also included. The second volume of the handbook will deal with applications of SQUIDs and SQUID systems.

Gravity, Gradiometry, and Gravimetry Reiner Rummel, Roger G. Hipkin, 2012-12-06 A General Meeting of the IAG was held in Edinburgh, Scotland, to commemorate its 125th Anniversary. The Edinburgh meeting, which attracted 360 scientific delegates and 80 accompanying persons from 44 countries, was hosted jointly by the Royal Society, the Royal Society of Edinburgh and the University of Edinburgh. The scientific part of the program, which was

held in the Appleton Tower of the University, included the following five symposia: Symposium 101 Global and Regional Geodynamics Symposium 102 GPS and Other Radio Tracking Systems Symposium 103 Gravity, Gradiometry and Gravimetry Symposium 104 Sea Surface Topography, the Geoid and Vertical Datums Symposium 105 Earth Rotation and Coordinate Reference Frames All together there were 90 oral and 160 poster presentatio'ls. The program was arranged to prevent any overlapping of oral presentations, and thus enabled delegates to participate in all the sessions. The 125th Anniversary Ceremony took place on August 7, 1989, in the noble surroundings of the McEwan Hall where, 53 years earlier, Vening-Meinesz gave one of the two Union Lectures at the 6th General Assembly of the IUGG. The Ceremony commenced with welcome speeches by the British hosts. An interlude of traditional Scottish singing and dancing was followed by the Presidential Address given by Professor Ivan Mueller, on 125 years of international cooperation in geodesy. The Ceremony continued with greetings from representatives of sister societies, and was concluded by the presentation of the Levallois Medal to Professor Arne Bjerhammar.

Magnetism in Medicine Wilfried Andrä, Hannes Nowak, 2007-02-27 This second, completely updated and extended edition of the only reference work in this growing field of medical physics focuses on biomagnetic instrumentation as well as applications in cardiology and neurology. New chapters have been added on fetal magnetography and magnetic field therapy, as well as the safety aspects of magnetic fields. Written by well-known specialists from Germany, USA, Canada, Japan, the Netherlands and Scandinavia, the result is a manual for researchers in this field as well as for those who apply modern methods based on magnetism in medical practice. It equally provides a detailed overview for newcomers to the field as well as for experts familiar with only one part of the area.

Rotating Gravity Gradiometer Study Robert L. Forward,1982 Two rotating gravity gradiometer (RGG) sensors, along with all the external electronics needed to operate them, and the fixtures and special test equipment needed to fill and align the bearings, were assembled in a laboratory, and inspected.

Gravity, Magnetic and Electromagnetic Gradiometry A V Veryaskin,2018-02-20

Development of a Gradiometer for Measuring Gravity Gradients Under Dynamic Conditions Glenn F. Kloiber, Charles B. Ames, Curtis C. Bell, HUGHES AIRCRAFT CO CULVER CITY CALIF AEROSPACE GROUP., Robert L. Forward, Robert W. Peterson, HUGHES RESEARCH LABS MALIBU CALIF., 1970

Design and development of a breadboard model of a gravity gradiometer has been undertaken by Hughes Aircraft Company under this Air Force Contract. This breadboard model, when developed, will be capable of measuring the gradient of the gravitational force field with any axis orientation under a quiet laboratory environment. The over-all goal of this program and succeeding ones is to develop a gradiometer capable of measuring gravitational force field gradients while being flown in an airplane. The report contains an up-to-date description of the design and development of the gradiometer and the design changes required as a result of preliminary tests. It also outlines a development plan which will resolve pertinent problems and assist in the achievement of the prototype operational goals. (Author).

Development of a Superconducting Gravity Gradiometer for a Test of the Inverse Square Law Evan Rhys Mapoles, 1981

Magnetic Source Imaging of the Human Brain Zhong-Lin Lu,Lloyd Kaufman,2003-10-17 This book is designed to acquaint serious students, scientists, and clinicians with magnetic source imaging (MSI)—a brain imaging technique of proven importance that promises even more important advances. The technique permits spatial resolution of neural events on a scale measured in millimeters and temporal resolution measured in milliseconds. Although widely mentioned in literature dealing with cognitive neuroscience and functional brain imaging, there is no single book describing both the foundations and actual methods of magnetoencephalopgraphy and its underlying science, neuromagnetism. This volume fills a long-standing need, as it is accessible to scientists and students having no special background in the field, and makes it possible for them to understand this literature and undertake their own research. A self-contained unit, this book covers MSI from beginning to end, including its relationship to allied technologies, such as electroencephalography and modern functional imaging modalities. In addition, the book: *introduces the field to the non-specialist, providing a framework for the rest of the book; *provides a thorough review of the physiological basis of MSI; *describes the mathematical bases of MSI—the forward and inverse problems; *outlines new signal processing methods that extract information from single-trial MEG; *depicts the early, as well as the most recent versions of MSI technology; *compares MSI with other imaging methodologies; *describes new paradigms and analysis techniques in applying MSI to study human perception and cognition, which are also applicable to EEG; and *reviews some of the most important results in MSI from the most prominent researchers and laboratories around the world.

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