

*Fiber Optic  
Fluorescence  
Thermometry*

— • —  
*K. T. V. Grattan  
and Z. Y. Zhang*



CHAPMAN & HALL

# Fiber Optic Fluorescence Thermometry Sensor Physics And Technology Series

**Otto S. Wolfbeis**



## **Fiber Optic Fluorescence Thermometry Sensor Physics And Technology Series:**

*Fiber Optic Fluorescence Thermometry* K. T. V. Grattan, Z.Y. Zhang, L.S. Grattan, Zhipeng Zhang, 1995 This book brings together in a single volume the principles practice and applications of the technology and places it in the context of other recent developments in optical fiber sensor technology Relevant solid state physics relating to fluorescent emission is reviewed to aid in materials selection all aspects of sensor design including detector circuit configurations are covered Cross referencing of systems with other temperature sensors and comparative evaluations with other sensor types are included

*Optical Fiber Sensor Technology* L.S. Grattan, B.T. Meggitt, 1997-12-31 Progress in optical fiber sensors The field of optical fiber sensor technology is one that continues to expand and develop at a rate that could barely have been predicted a few years ago The wealth of publications appearing in the technical literature and the burgeoning number of papers presented at the now well established series of national and international conferences which are attended by a wide selection of technically qualified optoelectronics professionals gives a clear indication of both the range and scale of the devices and applications now seen in the subject Such a rapid expansion makes it very difficult for the scientist and engineer under pressure to be both informed and effective for an employer to attend all these meetings selectively read the appropriate literature and be able quickly to gain the knowledge in those specific areas which will give the best advantage for the work in hand To that end this volume has been planned and carefully designed to provide an essential overview and detailed specific information on those novel and exciting aspects of optical fiber sensor technology that have recently emerged with particular focus on the devices and the exciting applications of this part of optoelectronic technology in the vast international measurement and instrumentation area

**Optical Fiber Sensor Technology** K. T. V. Grattan, B. T. Meggitt, 1999-04-30 This book builds on the foundation laid by Optical Fiber Sensor Technology Volumes I and II In those volumes the material covered encompassed the fundamentals and underlying principles of the subject and the progress in devices and their associated technology which has taken place in recent years Optical Fiber Sensor Technology Volume III concentrates on the applications of the technology and systems that rely upon it with a particular emphasis upon physical sensors Edited by two scientists with a wide knowledge of the field and the community the book brings together leading academics and practitioners in a comprehensive and incisive treatment of the subject This is an essential reference both for researchers working and teaching in optical fiber sensor technology and for industrial users who need to be aware of current developments in optical fiber sensor devices and new areas of the associated technology

**Silicon Sensors and Circuits** R.F. Wolffenbuttel, [Data Acquisition for Sensor Systems](#) H.R. Taylor, 2013-03-14 Data acquisition is concerned with taking one or more analogue signals and converting them to digital form with sufficient accuracy and speed to be ready for processing by a computer The increasing use of computers makes this an expanding field and it is important that the conversion process is done correctly because information lost at this stage can never be regained no matter how good the

computation The old saying garbage in garbage out is very relevant to data acquisition and so every part of the book contains a discussion of errors where do they come from how large are they and what can be done to reduce them The book aims to treat the data acquisition process in depth with less detailed chapters on the fundamental principles of measurement sensors and signal conditioning There is also a chapter on software packages which are becoming increasingly popular This is such a rapidly changing topic that any review of available programs is bound to be out of date before the book reaches the readers For this reason I have described the data handling which is available in various types of program and left it to the reader to select from whatever is on the market at the time

*Electromagnetic Waves* Carlo G. Someda, 1998-05-12 This book provides a comprehensive treatment of electromagnetic waves The author's approach is thoroughly modern and unlike many others this text offers a unified view of electromagnetic waves and their applications in telecommunications radar and photonics The extensive coverage of *Electromagnetic Waves* begins with Maxwell's equations and takes students on the journey from the wave and Helmholtz equations through polarization plane waves and wave beams and packets to antennas transmission lines and waveguides Completing the treatment are chapters devoted to diffraction and an introduction to the theory of coherence The author strikes an effective balance of the teach through concepts and teach by example approaches The book is filled with exercises current applications and exercises that solidify students understanding and bring relevance to the material It forms an outstanding text for senior undergraduates and graduate level students in electrical engineering and physics

**Ultrasonic Measurements and Technologies** Stefan Kocis, Zdenko Figura, 2012-12-06 An impulse for writing this book has originated from the effort to summarize and publicise the acquired results of a research team at the Department of Automation of the Faculty of Electrical Engineering and Informatics Slovak Technical University in Bratislava The research team has been involved for a long time with control problems for machine production mechanisms and in recent approximately 15 years its effort was aimed mostly at the control of electrical servosystems of robots Within this scope the members of the authors staff solved the State Research Task Ultrasonic sensing of the position of a robot hand which was coordinated by the Institute of Technical Cybernetics of the Slovak Academy of Sciences in Bratislava The problem was solved in a complex way i.e. from a conceptual design of the measurement through the measurement and evaluation system up to connection to the control system of a robot Compensation of the atmospheric influence on the precision of measurement as well as on the electroacoustical transducers were important parts of the solution The solution was aimed at using the ultrasonic pulse method which enables the measurement of absolute 3D position coordinates contrary to the relative position measurements by the incremental pickups which are standard robotic equipment

**Chemical Detection Technologies** Andrew W. Szumlas, 2005 *Comprehensive Biomedical Physics*, 2014-07-25 *Comprehensive Biomedical Physics* Ten Volume Set is a new reference work that provides the first point of entry to the literature for all scientists interested in biomedical physics It is of particular use for graduate and postgraduate students in the areas of medical

biophysics This Work is indispensable to all serious readers in this interdisciplinary area where physics is applied in medicine and biology Written by leading scientists who have evaluated and summarized the most important methods principles technologies and data within the field Comprehensive Biomedical Physics is a vital addition to the reference libraries of those working within the areas of medical imaging radiation sources detectors biology safety and therapy physiology and pharmacology as well as in the treatment of different clinical conditions and bioinformatics This Work will be valuable to students working in all aspect of medical biophysics including medical imaging and biomedical radiation science and therapy physiology pharmacology and treatment of clinical conditions and bioinformatics The most comprehensive work on biomedical physics ever published Covers one of the fastest growing areas in the physical sciences including interdisciplinary areas ranging from advanced nuclear physics and quantum mechanics through mathematics to molecular biology and medicine Contains 1800 illustrations all in full color Illustrated Official Journal (patents) Great Britain. Patent Office,1995

*Physics Briefs* ,1994    **Optics Index** ,1980    **Advanced Sensor Systems and Applications** ,2002    Fluorescence Methods and Applications Otto S. Wolfbeis,2008-07 This volume features papers on new spectroscopic methods and techniques the development and application of fluorescent probes and new techniques and applications of fluorescence imaging Specific areas include the following fluorescence lifetime fluorescence in vivo imaging time resolved fluorescence luminescence anisotropy fluorescent NMIR labels luminescent lanthanides fluorescent sensors and probes fluorescence microscopy FRET fluorescent nanoparticles and dots high throughput screening fluorescent bioassays luminescence based DNA technologies FISH and immunohistochemistry luminescence on metal surfaces fluorescent proteins upconversion multiphoton fluorescence confocal techniques near field and far field techniques single photon counting fluorescence correlation spectroscopy FCS and flow cytometry NOTE Annals volumes are available for sale as individual books or as a journal For information on institutional journal subscriptions please visit [www.blackwellpublishing.com/nyas](http://www.blackwellpublishing.com/nyas) ACADEMY MEMBERS Please contact the New York Academy of Sciences directly to place your order [www.nyas.org](http://www.nyas.org) Members of the New York Academy of Science receive full text access to the Annals online and discounts on print volumes Please visit [www.nyas.org/membership/main.asp](http://www.nyas.org/membership/main.asp) for more information about becoming a member    *Optics Letters* ,2008    Optical Engineering ,2004 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology    IEEE Sensors Journal ,2003    **McGraw-Hill Yearbook of Science & Technology 2004** ,2004    *Fiberoptic Chemical Sensors and Biosensors* Otto S. Wolfbeis,1991-06-14    **Eurosensors XII, Proceedings of The Twelfth European Conference on Solid-State Transducers and The Ninth UK Conference on Sensors and Their Applications Southampton, UK, 13-16 September 1998** Neil White,1998 Eurosensors XII incorporates the Sensors and their Applications as previously published in the Sensors Series It provides a comprehensive overview of current research across Europe It includes papers on sensor

devices chemical gas biological optical mechanical resonant flow and ultrasonic increased reporting of developments from the European micro machining community micro technology and integrated microsystems and discusses design and simulation approaches

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