

Advances In Near Infrared Measurements

Advances in Near Infrared Spectroscopy and Related Computational Methods Christian Huck 2020-01-03 In the last few decades, near-infrared (NIR) spectroscopy has distinguished itself as one of the most rapidly advancing spectroscopic techniques. Mainly known as an analytical tool useful for sample characterization and content quantification, NIR spectroscopy is essential in various other fields, e.g. NIR imaging techniques in biophotonics, medical applications or used for characterization of food products. Its contribution in basic science and physical chemistry should be noted as well, e.g. in exploration of the nature of molecular vibrations or intermolecular interactions. One of the current development trends involves the miniaturization and simplification of instrumentation, creating prospects for the spread of NIR spectrometers at a consumer level in the form of smartphone attachments--a breakthrough not yet accomplished by any other analytical technique. A growing diversity in the related methods and applications has led to a dispersion of these contributions among disparate scientific communities. The aim of this Special Issue was to bring together the communities that may perceive NIR spectroscopy from different perspectives. It resulted in 30 contributions presenting the latest advances in the methodologies essential in near-infrared spectroscopy in a variety of applications.

21st AIAA Advanced Measurement and Ground Testing Technology Conference: 00-2201 - 00-2374 2000

Advances in Cryogenic Heat Transfer J. R. Bartlit 1968

Near-Infrared Applications in Biotechnology Ramesh Raghavachari 2020-06-16 This volume explores developments in techniques in diagnostics, DNA sequencing, bioanalysis of immunoassays, and single-molecule detection. It promotes the measurement, identification, monitoring, analysis, and application of near-infrared spectroscopy (NIR) to medical and pharmaceutical advances. The text also considers noninvasive methods of NIR for successful, cost-effective, and prompt diagnoses of diseases.

Making Light Work Murray I. 1992

Advanced Nondestructive Evaluation I 2006

Making Light Work: Advances in Near Infrared Spectroscopy Ian Murray 1992-06 Making Light Work: Advances in Near Infrared Spectroscopy Edited by Ian Murray and Ian A. Cowe This book presents a cross-section of the most recent developments in near infrared spectroscopy. Applications, spectroscopic theory, chemometrics and instrumentation are all covered. The variety of contributors is a striking reflection of the broad range of applications of this technique. Workers in agriculture, food science, medicine, life sciences, pharmaceuticals, textiles, general chemicals and polymers have all contributed the latest developments from their fields. This book is essential reading for workers in NIR spectroscopy and will greatly benefit those considering implementing NIR in their work.

20th AIAA Advanced Measurement and Ground Testing Technology Conference 1998

Advances in Manufacturing Science and Engineering Xiang Hua Liu 2013-06-27 Selected, peer reviewed papers from the 4th international Conference on Manufacturing Science and Engineering (ICMSE 2013), March 30-31, 2013, Dalian, China

Advances in Near-Infrared Measurements Gabor Patonay 1998-12 This series aims to provide a basic insight into how NIR spectroscopy developed into an important general analytical tool in recent years.

Recent Progress of Biochemical and Biomedical Engineering in Japan I Takeshi Kobayashi

2004-07-21 The areas we deal with in biochemical engineering have expanded to include many various organisms and humans. This book has gathered together the information of these expanded areas in biochemical engineering in Japan. These two volumes are composed of 15 chapters on microbial cultivation techniques, metabolic engineering, recombinant protein production by transgenic avian cells to biomedical engineering including tissue engineering and cancer therapy. Hopefully, these volumes will give readers a glimpse of the past and also a view of what may happen in biochemical engineering in Japan.

Advances in measuring soil health Professor Wilfred Otten 2021-06-22 Comprehensive overview of key

advances in measuring soil biological, physical and chemical properties Particularly strong coverage of developments in measuring soil biological activity, including molecular techniques such as next-generation sequencing as well as improvements in measuring fauna such as earthworms, microbial and fungal communities Focus on ways of using analytical techniques in practice through the use of soil health indicators and decision support systems (DSS)

19th AIAA Advanced Measurement and Ground Testing Technology Conference 1996

New Serial Titles 1994 A union list of serials commencing publication after Dec. 31, 1949.

Developments in Near-Infrared Spectroscopy Konstantinos Kyprianidis 2017-03-15 Over the past few decades, exciting developments have taken place in the field of near-infrared spectroscopy (NIRS). This has been enabled by the advent of robust Fourier transform interferometers and diode array solutions, coupled with complex chemometric methods that can easily be executed using modern microprocessors. The present edited volume intends to cover recent developments in NIRS and provide a broad perspective of some of the challenges that characterize the field. The volume comprises six chapters overall and covers several sectors. The target audience for this book includes engineers, practitioners, and researchers involved in NIRS system design and utilization in different applications. We believe that they will greatly benefit from the timely and accurate information provided in this work.

Advanced Technologies for Physical Properties Measurement of Food and its Processing Hao Lin 2025-02-11 This book provides a comprehensive overview of the physical properties of foods and the cutting-edge technologies employed to measure them. Delving into key topics such as optical, thermal, acoustic, rheological, and textural properties, it provides a detailed examination of principles, measurement methods, and applications in food quality evaluation. While it discusses advanced technologies such as near-infrared spectroscopy, computer vision, spectral imaging, acoustic resonance analysis, electronic noses/tongues/eyes, and multi-sensor data fusion in detail, the book also introduces intelligent equipment design and real-time quality monitoring systems for the food industry, including emerging technologies like 4D printing and terahertz technology. The book also addresses critical questions about the application of these technologies in real-world scenarios, making it a must-read for those seeking to understand and apply the latest advancements in food science. This book is an invaluable resource for undergraduate and graduate students, researchers, and professionals in food science and engineering. It helps readers understand the principles of various non-destructive food quality measurement techniques and applies them to in-situ evaluation and in-field monitoring. It also serves as both a textbook and a reference guide, enabling readers to understand and apply advanced measurement and processing techniques for in-situ evaluation and in-field monitoring. By providing a thorough understanding of the principles and applications of food physical properties, this book ensures that its audience remains at the forefront of technological advancements in the field. The book contains several chapters originally written in the Chinese language. The translation was done with the help of artificial intelligence. A subsequent human revision was done primarily in terms of content.

Dairy Processing: Advanced Research to Applications Jagrani Minj 2020-04-10 This book focuses on advanced research and technologies in dairy processing, one of the most important branches of the food industry. It addresses various topics, ranging from the basics of dairy technology to the opportunities and challenges in the industry. Following an introduction to dairy processing, the book takes readers through various aspects of dairy engineering, such as dairy-based peptides, novel milk products and bio-fortification. It also describes the essential role of microorganisms in the industry and ways to detect them, as well as the use of prebiotics, and food safety. Lastly, the book examines the challenges faced, especially in terms of maintaining quality across the supply chain. Covering all significant areas of dairy science and processing, this interesting and informative book is a valuable resource for post-graduate students, research scholars and industry experts.

Supporting Research and Advanced Development 1969

Advances in Astronautical Sciences 1996-04 Vols. 1-3 are reissues of the proceedings of the 3d-4th annual meetings and 1st western regional meeting of the American Astronautical Society.

Advances in Atomic, Molecular, and Optical Physics 2016-05-31 Advances in Atomic, Molecular, and Optical Physics provides a comprehensive compilation of recent developments in a field that is in a state of rapid growth, as new experimental and theoretical techniques are used on many problems, both old and new. Topics covered include related applied areas, such as atmospheric science, astrophysics, surface physics, and laser physics, with timely articles written by distinguished experts that contain relevant review material and detailed descriptions of important developments in the field. - Presents the work of international experts in the field - Comprehensive articles compile recent developments in a field that is experiencing rapid growth, with new experimental and theoretical techniques emerging - Ideal for users interested in optics, excitons, plasmas, and thermodynamics - Topics covered include atmospheric science, astrophysics, surface physics, and laser physics, amongst others

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