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Soil Survey, Kings County, California - John Leonard Retzer 1946

**Handbook of Industrial Crystallization** - Allan Myerson 2002-01-08

Crystallization is an important separation and purification process used in industries ranging from bulk commodity chemicals to specialty chemicals and pharmaceuticals. In recent years, a number of environmental applications have also come to rely on crystallization in waste treatment and recycling processes. The authors provide an introduction to the field of newcomers and a reference to those involved in the various aspects of industrial crystallization. It is a complete volume covering all aspects of industrial crystallization, including material related to both fundamentals and applications. This new edition presents detailed material on crystallization of biomolecules, precipitation, impurity-crystal interactions, solubility, and design. Provides an ideal introduction for industrial crystallization newcomers Serves as a worthwhile reference to anyone involved in the field Covers all aspects of industrial crystallization in a single, complete volume

Food Irradiation Research and Technology - Christopher H. Sommers 2008-02-28

The benefits of food irradiation to the public health have been described extensively by organizations such as the Centers for Disease Control and Prevention in the U.S. and the World Health Organization. The American Medical Association and the American Dietetic Association have both endorsed the irradiation process. Yet the potential health benefits of irradiation are unknown to many consumers and

food industry representatives who are wary of irradiated foods due to myth-information from "consumer-advocate" groups. Food Irradiation Research and Technology presents the latest scientific findings of researchers at the leading edge of food irradiation. In this book, experts from industry, government, and academia: define the basic principles of irradiation and the public health benefits of irradiation describe advances in irradiation technology, detection technology, and radiation dosimetry review the regulations pertaining to food irradiation and the toxicological safety data provide food industry representatives and public health officials with effective methodologies to educate consumers and counteract misinformation review recent advances in the irradiation of meat and poultry, fruits and vegetables, seafood, and the use of irradiation as a phytosanitary treatment Food Irradiation Research and Technology appeals to a broad readership: industry food scientists involved in the processing of meat and fish, fruits and vegetables; food microbiologists and radiation processing specialists; government and industry representatives involved in the import and export of food commodities; and industry, local, and state officials involved in educational efforts regarding food irradiation. Food scientists and technologists share a responsibility to ensure that educational materials provided to the public regarding food safety and processing technologies are based on sound science and fact, not on misconceptions. Food Irradiation Research and Technology meets that goal. Handbook of Coastal and Ocean Engineering - Kim Young C 1998-05-13

The handbook contains a comprehensive compilation of topics that are at the forefront of many of the technical advances in ocean waves, coastal, and ocean engineering. More than 110 internationally recognized authorities in the field of coastal and ocean engineering have contributed articles in their areas of expertise to this handbook. These international luminaries are from highly respected universities and renowned research and consulting organizations around the world.

**Citrus Fruit** - Milind Ladanyia 2010-07-28

Post harvest biology and technology of citrus fruits is gaining importance as the therapeutic value of citrus fruits is realized and supported by the increase in health awareness among the general public. This book is the most comprehensive reference on citrus fruit biology, biotechnology and quality. Basic and applied scientific information is interwoven to serve the researcher, marketer, scientist, nutritionist, or dietician. With discussions of fruit morphology, anatomy, physiology and biochemistry and chapters on growth phases, maturity standards, grades and physical and mechanical characteristics of citrus trees, this book provides the foundation for understanding growth, harvest and post harvest aspects of these important plants. Insect-pests and diseases, irrigation, nutrition and rootstocks are also addressed. \* Provides practical tips for post harvest management. \* Includes all aspects of citrus fruit biology, technology and quality evaluation. \* Discusses biotechnological applications and potential fresh citrus fruit quality improvement \* Evaluates medicinal and therapeutic applications and recent clinical findings \* Exhaustive glossary included

**Next Generation Sequencing** - Steven R. Head 2017-12-10

This volume covers a wide range of various fields of research, with the common thread being Next Generation Sequencing (NGS) related methods and applications, as well as analysis and interpretation of the data obtained. Chapters guide readers through the highly dynamic processes of translational and transcriptional profiling of a cell, method to detect copy number alterations (CNAs), targeted sequencing applications, method called "Hi-Plex" to characterize known polymorphic loci,

single-cell of DNA or RNA, identify and characterize rare circulating CD4 T cells, and computational pipeline for RNAseq analysis. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Next Generation Sequencing: Methods and Protocols aims to be useful and informative for further study into this vital field.

**Assessment of Freshwater Fish Seed**

**Resources for Sustainable Aquaculture** -

Food and Agriculture Organization of the United Nations 2007

This publication is presented in two parts.

**Infrared Spectral Interpretation** - Brian C. Smith 2018-02-06

This author's second volume introduces basic principles of interpreting infrared spectral data, teaching its readers to make sense of the data coming from an infrared spectrometer. Contents include spectra and diagnostic bands for the more common functional groups as well as chapters on polyester spectra and interpretation aids. Discussions include: Science of infrared interpretation Light and molecular vibrations How and why molecules absorb infrared radiation Peak heights, intensities, and widths Hydrocarbons, carbonyl groups, and molecules with C-N bonds Polymers and inorganic molecules The use of atlases, library searching, spectral subtraction, and the Internet in augmenting interpretation Each chapter presents an introduction to the nomenclature and structure of a specific functional group and proceeds with the important diagnostic bands for each group. Infrared Spectral Interpretation serves both novices and experienced practitioners in this field. The author maintains a website and blog with supplemental material. His training course schedule is also available online.

**Managing and Mining Graph Data** - Charu C. Aggarwal 2010-02-02

Managing and Mining Graph Data is a comprehensive survey book in graph management and mining. It contains extensive surveys on a variety of important graph topics

such as graph languages, indexing, clustering, data generation, pattern mining, classification, keyword search, pattern matching, and privacy. It also studies a number of domain-specific scenarios such as stream mining, web graphs, social networks, chemical and biological data. The chapters are written by well known researchers in the field, and provide a broad perspective of the area. This is the first comprehensive survey book in the emerging topic of graph data processing. Managing and Mining Graph Data is designed for a varied audience composed of professors, researchers and practitioners in industry. This volume is also suitable as a reference book for advanced-level database students in computer science and engineering.

Genomic and Personalized Medicine - 2012-10-30

Genomic and Personalized Medicine, Second Edition — winner of a 2013 Highly Commended BMA Medical Book Award for Medicine — is a major discussion of the structure, history, and applications of the field, as it emerges from the campus and lab into clinical action. As with the first edition, leading experts review the development of the new science, the current opportunities for genome-based analysis in healthcare, and the potential of genomic medicine in future healthcare. The inclusion of the latest information on diagnostic testing, population screening, disease susceptibility, and pharmacogenomics makes this work an ideal companion for the many stakeholders of genomic and personalized medicine. With advancing knowledge of the genome across and outside protein-coding regions of DNA, new comprehension of genomic variation and frequencies across populations, the elucidation of advanced strategic approaches to genomic study, and above all in the elaboration of next-generation sequencing, genomic medicine has begun to achieve the much-vaunted transformative health outcomes of the Human Genome Project, almost a decade after its official completion in April 2003. Highly Commended 2013 BMA Medical Book Award for Medicine More than 100 chapters, from leading researchers, review the many impacts of genomic discoveries in clinical action, including 63 chapters new to this edition Discusses state-

of-the-art genome technologies, including population screening, novel diagnostics, and gene-based therapeutics Wide and inclusive discussion encompasses the formidable ethical, legal, regulatory and social challenges related to the evolving practice of genomic medicine Clearly and beautifully illustrated with 280 color figures, and many thousands of references for further reading and deeper analysis

**Biogas Energy** - Tasneem Abbasi 2011-11-03

In recent years, the importance of biogas energy has risen manifold and has become universal. This is due to the realization that biogas capture and utilization has great potential in controlling global warming. By capturing biogas wherever it is formed, we not only tap a source of clean energy, but we also prevent the escape of methane to the atmosphere. Given that methane has 25 times greater global warming potential than CO<sub>2</sub>, methane capture through biogas energy in this manner can contribute substantially towards global warming control.

**The Applied Dynamics Of Ocean Surface Waves** - Mei Chiang C 1989-07-01

The aim of this book is to present selected theoretical topics on ocean wave dynamics, including basic principles and applications in coastal and offshore engineering, all from the deterministic point of view. The bulk of the material deals with the linearized theory.

**Advances in Food Authenticity Testing** - Gerard Downey 2016-08-08

Advances in Food Authenticity Testing covers a topic that is of great importance to both the food industry whose responsibility it is to provide clear and accurate labeling of their products and maintain food safety and the government agencies and organizations that are tasked with the verification of claims of food authenticity. The adulteration of foods with cheaper alternatives has a long history, but the analytical techniques which can be implemented to test for these are ever advancing. The book covers the wide range of methods and techniques utilized in the testing of food authenticity, including new implementations and processes. The first part of the book examines, in detail, the scientific basis and the process of how these techniques are used, while other sections highlight specific examples of the use of these techniques in the testing of various foods. Written by experts in

both academia and industry, the book provides the most up-to-date and comprehensive coverage of this important and rapidly progressing field. Covers a topic that is of great importance to both the food industry and the governmental agencies tasked with verifying the safety and authenticity of food products Presents a wide range of methods and techniques utilized in the testing of food authenticity, including new implementations and processes Highlights specific examples of the use of the emerging techniques and testing strategies for various foods

**Process Analytical Technology** - Katherine A. Bakeev 2008-04-15

The use of real or near real time measurement of chemical production process parameters as the basis for achieving control or optimisation of a manufacturing process has wide application in the petrochemical, food and chemical industries. Process analytical chemistry (PAC), or process analytical technology (PAT) as it has recently been called, is now being deployed in the pharmaceutical industry, where it is seen as a technology that can help companies to improve their conformity with manufacturing compliance regulations. The objective of this book is to provide a starting point for implementing process analytical chemistry tools in process monitoring applications or as part of a total quality management system. Written from the perspective of the spectroscopist required to implant PAT tools in a process environment, attention is focussed on measurements that are made "in process" at-line or off-line, providing data on product during manufacture. With chapters covering the key spectroscopic tools, their applications in the pharmaceutical and chemical industries and basic chemometrics, the novice can quickly develop a sound understanding of the most practical technologies and applications. Implementation strategies are fully covered and address some of the critical issues that need to be tackled when setting up a PAT project - including choosing a project with a sound business justification in the first place.

*Applications of Vibrational Spectroscopy in Food Science, 2 Volume Set* - Eunice Li-Chan 2010-11-01

Bringing several disparate aspects of food science and analysis together in one place,

Applications of Vibrational Spectroscopy to Food Science provides a comprehensive, state-of-the-art text presenting the fundamentals of the methodology, as well as underlying current areas of research in food science analysis. All of the major spectroscopic techniques are also covered - showing how each one can be used beneficially and in a complementary approach for certain applications. Case studies illustrate the many applications in vibrational spectroscopy to the analysis of foodstuffs.

*Marijuana and the Cannabinoids* - Mahmoud A. ElSohly 2007-11-15

Although primarily used today as one of the most prevalent illicit leisure drugs, the use of Cannabis sativa L., commonly referred to as marijuana, for medicinal purposes has been reported for more than 5000 years. Marijuana use has been shown to create numerous health problems, and, consequently, the expanding use beyond medical purposes into recreational use (abuse) resulted in control of the drug through international treaties. Much research has been carried out over the past few decades following the identification of the chemical structure of THC in 1964. The purpose of Marijuana and the Cannabinoids is to present in a single volume the comprehensive knowledge and experience of renowned researchers and scientists. Each chapter is written independently by an expert in his/her field of endeavor, ranging from the botany, the constituents, the chemistry and pharmacokinetics, the effects and consequences of illicit use on the human body, to the therapeutic potential of the cannabinoids.

**Near-Infrared Spectroscopy in Food Science and Technology** - Yukihiro Ozaki 2006-09-18

This reference gives food science professionals a working understanding of near-infrared spectroscopy (NIRS) and its role in maximizing food potential. It explains the technical aspects of NIRS, including: basic principles; characteristics of the NIR spectra; instrumentation; sampling techniques; and chemometrics. The book details applications of NIRS in agricultural and marine products, foodstuffs and processed foods, engineering and process monitoring, and food safety and disease diagnosis.

*Freshwater Microplastics* - Martin Wagner 2017-11-21

This book is open access under a CC BY 4.0 license. This volume focuses on microscopic plastic debris, also referred to as microplastics, which have been detected in aquatic environments around the globe and have accordingly raised serious concerns. The book explores whether microplastics represent emerging contaminants in freshwater systems, an area that remains underrepresented to date. Given the complexity of the issue, the book covers the current state-of-research on microplastics in rivers and lakes, including analytical aspects, environmental concentrations and sources, modelling approaches, interactions with biota, and ecological implications. To provide a broader perspective, the book also discusses lessons learned from nanomaterials and the implications of plastic debris for regulation, politics, economy, and society. In a research field that is rapidly evolving, it offers a solid overview for environmental chemists, engineers, and toxicologists, as well as water managers and policy-makers.

**Near Infrared Spectroscopy in Food Analysis**  
- B. G. Osborne 1986

**Applied Spectroscopy** - Jerry Workman, Jr.  
1998-06-08

This book delineates practical, tested, general methods for ultraviolet, visible, and infrared spectrometry in clear language for novice users, and serves as a reference resource for advanced spectroscopists. Applied Spectroscopy includes important information and equations which will be referred to regularly. The book emphasizes reflectance and color measurements due to their common usage in today's spectroscopic laboratories, and contains methods for selecting a measurement technique as well as solar and color measurements. Written by experts in the field, this text covers spectrometry of new materials, ceramics, and textiles, and provides an appendix of practical reference data for spectrometry. Book topics include: Practical aspects of spectrometers and spectrometry; Sample preparation; Chemometrics and calibration practices; Reflectance measurements; Standard materials measurements An emphasis is placed on reflectance and color measurements due to their common usage in today's spectroscopic

laboratories Methods for selecting a measurement technique are included as well as solar measurements and reference information on sources, detectors, optical fiber and window materials

*IR* - Nelson L. Alpert 1970

The first edition of this text was written primarily by one of the present authors (HAS), with a chapter on instrumentation contributed by a second (NLA). The volume was well received, and to keep the text up-to-date a second edition was planned. For this second edition, a third author (WEK) was invited, whose background complemented that of the other two. Each of the authors was assigned several chapters as his primary task while the complete manuscript remained the secondary responsibility of all three. It is hoped that this approach has resulted in a work that is even more thorough than the first edition in covering the basic concepts of infrared spectroscopy. NELSON L. ALPERT WILLIAM E. KEISER HERMAN A. SZYMANSKI v PREFACE TO THE FIRST EDITION My experience with the many infrared spectroscopy institutes held at Canisius College and many discussions with both beginners and experienced practitioners in infrared spectroscopy have convinced me that there is a need for an introductory text devoted entirely to infrared spectroscopy, a text which can be utilized even by those who approach this study with only a limited background. This volume sprang from that conviction. It is intended for all who wish to use infrared spectroscopy in research - especially chemists doing structural work - in routine control work, in industrial development, or in medical applications or those military applications where it is employed as an analytical tool.

*Beneficial Microorganisms in Agriculture* - Ram Prasad 2022-07-04

This book discusses genetic engineering of both plants and microbes for making agricultural practices more productive and sustainable. Its chapters explore the understanding of the interaction between plants and microbes, and genomic information to modify the metabolism of plants or microbes to further enhance the beneficial interaction. The book covers the development of commercial inoculants including selection of appropriate plant growth-promoting

rhizobacteria/ phosphate solubilize bacteria based on target host plant, soil type, indigenous microbial communities, environmental conditions, inoculant density, suitability of carriers and compatibility with integrated crop management. This is a relevant content for scientists and researchers working on soil biology, sustainable agricultural and plant physiology. Also, this book is a useful read for graduate and post graduate students of agriculture, botany and microbiology.

*The Genetics of the Mouse* -

### **Advances in Marine Antifouling Coatings and Technologies** - Claire Hellio 2009-05-22

Marine biofouling can be defined as the undesirable accumulation of microorganisms, algae and animals on structures submerged in seawater. From the dawn of navigation, marine biofouling has been a major problem for shipping in such areas as reduced speed, higher fuel consumption and increased corrosion. It also affects industries using off-shore structures such as oil and gas production and aquaculture. Growing concerns about the environmental impact of antifouling coatings has led to major new research to develop more environmentally-friendly alternatives. Advances in marine antifouling coatings and technologies summaries this wealth of research and its practical implications. This book is divided into four sub-sections which discuss: marine fouling organisms and their impact, testing and development of antifouling coatings, developments in chemically-active marine antifouling technologies, and new surface approaches to the control of marine biofouling. It provides an authoritative overview of the recent advances in understanding the biology of fouling organisms, the latest developments on antifouling screening techniques both in the field and in the laboratory, research on safer active compounds and the progress on nontoxic coatings with tailor-made surface properties. With its distinguished editors and international team of contributors, Advances in marine antifouling coatings and technologies is a standard reference for manufacturers of marine antifouling solutions, the shipping industry, oil and gas producers, aquaculture and other industries using offshore structures, and

academics researching this important area. Assesses marine antifouling organisms and their impact, including a historical review and directions for future research Discusses developments in antifouling coatings examining chemically-active and new surface approaches Reviews the environmentally friendly alternative of safer active compounds and the progress of non-toxic compounds

RNA Bioinformatics - Ernesto Picardi 2015-01-11

This volume provides an overview of RNA bioinformatics methodologies, including basic strategies to predict secondary and tertiary structures, and novel algorithms based on massive RNA sequencing. Interest in RNA bioinformatics has rapidly increased thanks to the recent high-throughput sequencing technologies allowing scientists to investigate complete transcriptomes at single nucleotide resolution. Adopting advanced computational technics, scientists are now able to conduct more in-depth studies and present them to you in this book. Written in the highly successful Methods of Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and equipment, step-by-step, readily reproducible bioinformatics protocols, and key tips to avoid known pitfalls. Authoritative and practical, RNA Bioinformatics seeks to aid scientists in the further study of bioinformatics and computational biology of RNA.

### **Microplastics in Water and Wastewater** -

Hrissi K. Karapanagioti 2019-09-15

This book covers the topic of microplastics in water and wastewater. The chapters start with introductory issues related to the growing interest in the scientific community on microplastics and the human water cycle and point out where the microplastics could interact with water. The subsequent chapters examine evidence of the microplastic presence in freshwater, such as in both rivers and lakes, in freshwater biota, and hazardous chemicals associated with microplastics in such systems. Another set of chapters discuss the presence of microplastics in wastewater: their sources; their transfer through a wastewater treatment plant; the concentration of microplastics in effluents throughout the world; the plastic biomedica used in wastewater treatment plants and the effect on

the surrounding environment of effluent wastewater pipes. These chapters also discuss the sampling methods, the sample treatment and analysis techniques used so far for microplastics in wastewater. Additionally, the presence of microplastics in sewage sludge and in soils irrigated with wastewater or fertilized with sludge are discussed. The possible impact of plastics and their additives on plants, microalgae, and humans are reviewed and presented in a critical way. Finally, a chapter summarizes all the relevant regulations and initiatives that point to the necessity of a global directive for the protection of the environment from plastic and microplastic pollution. The topic of microplastics in freshwater systems and in wastewater has scarcely been studied and requires more attention. *Microplastics in Water and Wastewater* aims to bring these initial findings to the attention of a broader audience and especially to operators and managers of freshwater and wastewater systems. It will also be helpful to people already aware of the marine debris problem to understand the sources of microplastics in the oceans, from freshwater systems and wastewater treatment plants.

### **Energy Sustainability Through Green**

**Energy** - Atul Sharma 2015-04-21

This book shares the latest developments and advances in materials and processes involved in the energy generation, transmission, distribution and storage. Chapters are written by researchers in the energy and materials field. Topics include, but are not limited to, energy from biomass, bio-gas and bio-fuels; solar, wind, geothermal, hydro power, wave energy; energy-transmission, distribution and storage; energy-efficient lighting buildings; energy sustainability; hydrogen and fuel cells; energy policy for new and renewable energy technologies and education for sustainable energy development.

### **Infrared and Raman Spectroscopies of Clay Minerals** - 2017-10-27

*Infrared and Raman Spectroscopies of Clay Minerals*, Volume 8 in the *Developments in Clay Science* series, is an up-to-date overview of spectroscopic techniques used in the study of clay minerals. The methods include infrared spectroscopy, covering near-IR (NIR), mid-IR (MIR), far-IR (FIR) and IR emission spectroscopy (IES), as well as FT-Raman spectroscopy and

Raman microscopy. This book complements the succinct introductions to these methods described in the original *Handbook of Clay Science* (Volumes 1, 1st Edition and 5B, 2nd Edition), offering greater depth and featuring the most important literature since the development and application of these techniques in clay science. No other book covers such a wide variety of vibrational spectroscopic techniques in a single volume for clay and soil scientists. Includes a systematic review of spectroscopic methods Covers the theory of infrared and Raman spectroscopies and instrumentation Features a series of chapters each covering either a particular technique or application

[Bloodstain Pattern Analysis with an Introduction to Crime Scene Reconstruction](#) - Tom Bevel  
2008-04-08

Objective establishment of the truth is the goal of any good crime scene investigator. This demands a consideration of all evidence available using proven scientific methodologies to establish objective snapshots of the crime. The majority of forensic disciplines shed light on the who of a crime, bloodstain pattern analysis is one of the most imp

**PVC Degradation and Stabilization** - George Wypych 2015-03-18

PVC stabilization, the most important aspect of formulation and performance of this polymer, is discussed in details. This book contains all information required to design successful stabilization formula for any product made out of PVC. Separate chapters review information on chemical structure, PVC manufacturing technology, morphology, degradation by thermal energy, UV, gamma, other forms of radiation, mechanodegradation, and chemical degradation. The chapter on analytical methods used in studying of degradative and stabilization processes helps in establishing system of checking results of stabilization with different stabilizing systems. Stabilization and stabilizers are discussed in full detail in the most important chapter of this book. The final chapter contains information on the effects of PVC and its additives on health, safety and environment. This book contains analysis of all essential papers and patents published until recently on the above subject. It either locates the answers

to relevant questions and offers solutions or gives references in which such answers can be found. PVC Degradation and Stabilization is must to have for chemists, engineers, scientists, university teachers and students, designers, material scientists, environmental chemists, and lawyers who work with polyvinyl chloride and its additives or have any interest in these products. This book is the one authoritative source on the subject. A practical and up-to-date reference guide for engineers and scientists designing with PVC Covers thermal, UV, gamma radiation, chemical, and other forms of degradation Includes a critical discussion of the sustainability issues faced by PVC and its additives, as well as health and safety concerns  
The% Freshwater Bivalves of China - Jing He 2013

**Non-Bovine Milk and Milk Products** - Effie Tsakalidou 2016-05-31

Non-Bovine Milk and Milk Products presents a compiled and renewed vision of the knowledge existing as well as the emerging challenges on animal husbandry and non-cow milk production, technology, chemistry, microbiology, safety, nutrition, and health, including current policies and practices. Non-bovine milk products are an expanding means of addressing nutritional and sustainable food needs around the world. While many populations have integrated non-bovine products into their diets for centuries, as consumer demand and acceptance have grown, additional opportunities for non-bovine products are emerging. Understanding the proper chain of production will provide important insight into the successful growth of this sector. This book is a valuable resource for those involved in the non-cow milk sector, e.g. academia, research institutes, milk producers, dairy industry, trade associations, government, and policy makers. Discusses important social, economic, and environmental aspects of the production and distribution of non-bovine milk and milk products Provides insight into non-bovine milk from a broad range of relevant perspectives with contributions from leading researchers around the world Focuses on current concerns including animal health and welfare, product safety, and production technologies Serves as a valuable resource for those involved in the non-cow milk

sector

**Fundamentals of Fourier Transform Infrared Spectroscopy** - Brian C. Smith 2011-03-09

Reflecting the myriad changes and advancements in the technologies involved in FTIR, particularly the development of diamond ATRs, this second edition of Fundamentals of Fourier Transform Infrared Spectroscopy has been extensively rewritten and expanded to include new topics and figures as well as updates of existing chapters. Designed for those ne

Infrared Spectroscopy - Barbara H. Stuart 2004-08-20

Provides an introduction to those needing to use infrared spectroscopy for the first time, explaining the fundamental aspects of this technique, how to obtain a spectrum and how to analyse infrared data covering a wide range of applications. Includes instrumental and sampling techniques Covers biological and industrial applications Includes suitable questions and problems in each chapter to assist in the analysis and interpretation of representative infrared spectra Part of the ANTS (Analytical Techniques in the Sciences) Series.

**Hyperspectral Imaging for Food Quality Analysis and Control** - Da-Wen Sun 2010-06-29

Based on the integration of computer vision and spectrscopy techniques, hyperspectral imaging is a novel technology for obtaining both spatial and spectral information on a product. Used for nearly 20 years in the aerospace and military industries, more recently hyperspectral imaging has emerged and matured into one of the most powerful and rapidly growing methods of non-destructive food quality analysis and control. Hyperspectral Imaging for Food Quality Analysis and Control provides the core information about how this proven science can be practically applied for food quality assessment, including information on the equipment available and selection of the most appropriate of those instruments. Additionally, real-world food-industry-based examples are included, giving the reader important insights into the actual application of the science in evaluating food products. Presentation of principles and instruments provides core understanding of how this science performs, as well as guideline on

selecting the most appropriate equipment for implementation Includes real-world, practical application to demonstrate the viability and challenges of working with this technology Provides necessary information for making correct determination on use of hyperspectral imaging

**Practical Guide to Interpretive Near-Infrared Spectroscopy** - Jerry Workman Jr. 2007-10-26

Containing focused, comprehensive coverage, Practical Guide to Interpretive Near-Infrared Spectroscopy gives you the tools necessary to interpret NIR spectra. The authors present extensive tables, charts, and figures with NIR absorption band assignments and structural information for a broad range of functional groups, organic compounds, and

*Reproductive Genetics* - Sean Kehoe 2009-11  
This book presents the findings of the RCOG Study Group findings on genetics underlying reproductive function.

Alcohol and Cancer - Vasilis Vasiliou 2018-10-26  
Following the Third Alcohol and Cancer Conference, this volume compiles the most up-to-date research on the role of alcohol consumption in carcinogenesis, from epidemiology to pathology metabolism and stem cells. More specifically, it delves into the effects of alcohol consumption and thyroid cancer, CD133+ progenitor cells, carcinogenic iron accumulation, developmental morphogens, and

cancer-inducing epigenetic changes. Alcohol and Cancer: Proceedings of the Third International Conference is a timely update to Biological Basis of Alcohol-Induced Cancer, which followed the Second Alcohol and Cancer Conference, compiling cutting-edge research from graduate students, young scientists, and researchers. It is ideal for graduate students and researchers in oncology, hepatology, epigenetics, and alcohol consumption.

**Data Analysis for Omic Sciences: Methods and Applications** - 2018-09-22

Data Analysis for Omic Sciences: Methods and Applications, Volume 82, shows how these types of challenging datasets can be analyzed. Examples of applications in real environmental, clinical and food analysis cases help readers disseminate these approaches. Chapters of note include an Introduction to Data Analysis Relevance in the Omics Era, Omics Experimental Design and Data Acquisition, Microarrays Data, Analysis of High-Throughput RNA Sequencing Data, Analysis of High-Throughput DNA Bisulfite Sequencing Data, Data Quality Assessment in Untargeted LC-MS Metabolomic, Data Normalization and Scaling, Metabolomics Data Preprocessing, and more. Presents the best reference book for omics data analysis Provides a review of the latest trends in transcriptomics and metabolomics data analysis tools Includes examples of applications in research fields, such as environmental, biomedical and food analysis  
*Research Opportunities for Women* - 1986