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KEY=HPLC - GLASS JASE

Understanding Humic Substances Advanced Methods, Properties And Applications *Woodhead Publishing* **Reporting on front-line research into these natural materials, this volume focuses on the use of chemical and physical methodology in seeking an explanation of the structures of humic substances (HSs) and their relation to their microscopic properties. Plant Genetic Resources Newsletter** *Bioversity International* **Trace metal adsorption characteristics of nanomaterials** *Amazon CreateSpace* **Trace Metal Adsorption Characteristics of Nanomaterials provides an overview of techniques for the analysis of trace metal adsorption by carbon nanotubes and nanoparticle titanium dioxide. Experimental protocols are provided through an example project. Breast Cancer Current and Alternative Therapeutic Modalities** *BoD - Books on Demand* **Cancer is the leading cause of death in most countries and its consequences result in huge economic, social and psychological burden. Breast cancer is the most frequently diagnosed cancer type and the leading cause of cancer death among females. In this book, we discussed various therapeutic modalities from signaling pathways through various anti-tumor compounds as well as herbal medicine for this deadly cancer. We hope that this book will contribute to the development of novel diagnostic as well as therapeutic approaches. Second SeaWiFS HPLC Analysis Round-robin Experiment (SeaHARRE-2) Protein Liquid Chromatography** *Elsevier* **Protein Liquid Chromatography is a handbook-style guide to liquid chromatography as a tool for isolating and purifying proteins, consisting of 25 individual chapters divided into three parts: Part A covers commonly-used, classic modes of chromatography such as**

ion-exchange, size-exclusion, and reversed-phase; Part B deals with various target protein classes such as membrane proteins, recombinant proteins, and glycoproteins; and Part C looks at various miscellaneous related topics, including coupling reaction, buffer solution additives, and software. The text as a whole can be viewed as a systematic survey of available methods and how best to use them, but also attempts to provide an exhaustive coverage of each facet. How to solve a specific problem using a chosen method is the overall essence of the volume. The principle philosophy of this compilation is that practical application is everything; therefore, both classical and modern methods are presented in detail, with examples involving conventional, medium- and high-pressure techniques. Over-exposure to history, concept, and theory has deliberately been avoided. The reader will find a wealth of tips and tricks from users for users, including advice on the advantages and disadvantages of each method. Easy-to-read sections on "Getting started now" and "Where to go from here" attempt to provide hands-on, fool-proof detailed practical procedures with complete and even standard model runs for any scientist or technician at work in this area.

A Practical Guide to HPLC Detection *Academic Press* This guide for the practicing chromatographer who wants a ready source of information on HPLC detection explores and compares existing detection systems and detectors, outlines the common problems associated with a given detector, and offers proven approaches to avoiding such problems. Addresses the practical aspects of HPLC detection, including: basic theory, when a particular type of detector can be used, how detectors from various manufacturers differ, common problems of detectors and ways to avoid them Presents an overview of today's most common techniques Discusses the advantages and disadvantages of HPLC, dispelling common misconceptions

High-Performance Liquid Chromatography of Peptides and Proteins Separation, Analysis, and Conformation *CRC Press* This book consists of a series of 82 precise, easy-to-read articles by internationally renowned scientists and emphasizes the practical approach to HPLC with minimal theory, although the underlying principles for peptide and protein separations are clearly expressed. All of the major modes of microbore, ultrafast and analytical HPLC are discussed, including size-exclusion, ion-exchange, reversed-phase, hydrophobic interaction, and affinity and immunoaffinity chromatography. A section on preparative HPLC, including displacement techniques, is also presented. Problem-solving approaches to the separation of various classes of biologically active peptides and proteins are thoroughly explored, while the importance of peptide standards for monitoring column performance and for optimizing separation conditions is emphasized. Several articles focus on the choice of the correct detection method (electrochemical, UV, fluorescence), as well as the need for a proper knowledge of approaches to column and instrument maintenance and troubleshooting. A section on predictive approaches deals with both computer simulation of peptide separations and peptide structure. The book also includes complementary techniques to HPLC, as well as other useful applications of HPLC. It

enables both novice and experienced chromatographers to realize the full potential of this extremely powerful technique, in the process making an important contribution to scientific literature. **Application of Analytical Chemistry to Foods and Food Technology** *MDPI* The application of analytical chemistry to the food sector allows the determination of the chemical composition of foods and the properties of their constituents, contributing to the definition of their nutritional and commodity value. Furthermore, it is possible to study the chemical modifications that food constituents undergo as a result of the treatments they undergo (food technology). Food analysis, therefore, allows us not only to determine the quality of a product or its nutritional value, but also to reveal adulterations and identify the presence of xenobiotic substances potentially harmful to human health. Furthermore, some foods, especially those of plant origin, contain numerous substances with beneficial effects on health. While these functional compounds can be obtained from a correct diet, they can also be extracted from food matrices for the formulation of nutraceutical products or added to foods by technological or biotechnological means for the production of functional foods. On the other hand, the enormous growth of the food industry over the last 50 years has broadened the field of application of analytical chemistry to encompass not only food but also food technology, which is fundamental for increasing the production of all types of food. **Laboratory Guide to the Methods in Biochemical Genetics** *Springer Science & Business Media* This manual deals specifically with laboratory approaches to diagnosing inborn errors of metabolism. The key feature is that each chapter is sufficiently detailed so that any individual can adopt the described method into their own respective laboratory. **Regulators and Effectors of Small GTPases, Part E: GTPases Involved in Vesicular Traffic** *Elsevier* Small GTPases play a key role in many aspects of contemporary cell biology: control of cell growth and differentiation; regulation of cell adhesion and cell movement; the organization of the actin cytoskeleton; and the regulation of intracellular vesicular transport. This volume and its companions (Volumes 255, 256, 257, and the forthcoming 325) cover all biochemical and biological assays currently in use for analyzing the role of small GTPases in these aspects of cell biology at the molecular level. **Environmental Health Perspectives Supplements** **CRC Handbook of Chromatography Analysis and Characterization of Steroids** *CRC Press* **CRC Handbook of Analysis and Characterization of Steroids** provides a comprehensive review of chromatographic methods used in steroid analysis, including gas chromatography, high-performance liquid chromatography, thin-layer chromatography, and supercritical fluid chromatography. The book discusses principles, applications, and apparatus required for the chromatographic analysis of steroids. Classes of steroids covered include anabolic-androgenic steroids, bile acids, cardenolides, ecdysteroids, estrogens, corticoids, sterols, and Vitamin D. A chapter is devoted to each class of steroids and features nomenclature, structures, and descriptions for sample preparations and chromatographic data. **CRC Handbook of Analysis and Characterization of**

Steroids provides essential information and techniques for professional analytical chemists in academia, clinical chemists in pharmaceutical and food quality control labs, and researchers and technicians in forensic and drug analysis facilities. **Protein & Peptide Letters Electrochemically Active Microorganisms** *Frontiers Media SA* Microbial electrochemical systems (MESs, also known as bioelectrochemical systems (BESs) are promising technologies for energy and products recovery coupled with wastewater treatment, and have attracted increasing attention. Many studies have been conducted to expand the application of MESs for contaminants degradation and bioremediation, and increase the efficiency of electricity production by optimizing architectural structure of MESs, developing new electrode materials, etc. However, one of the big challenges for researchers to overcome, before MESs can be used commercially, is to improve the performance of the biofilm on electrodes so that 'electron transfer' can be enhanced. This would lead to greater production of electricity, energy or other products. Electrochemically active microorganisms (EAMs) are a group of microorganisms which are able to release electrons from inside their cells to an electrode or accept electrons from an electron donor. The way in which EAMs do this is called 'extracellular electron transfer' (EET). So far, two EET mechanisms have been identified: direct electron transfer from microorganisms physically attached to an electrode, and indirect electron transfer from microorganisms that are not physically attached to an electrode. 1) Direct electron transfer between microorganisms and electrode can occur in two ways: a) when there is physical contact between outer membrane structures of the microbial cell and the surface of the electrode, b) when electrons are transferred between the microorganism and the electrode through tiny projections (called pili or nanowires) that extend from the outer membrane of the microorganism and attach themselves to the electrode. 2) Indirect transfer of electrons from the microorganisms to an electrode occurs via long-range electron shuttle compounds that may be naturally present (in wastewater, for example), or may be produced by the microorganisms themselves. The electrochemically active biofilm, which degrades contaminants and produces electricity in MESs, consists of diverse community of EAMs and other microorganisms. However, up to date only a few EAMs have been identified, and most studies on EET have focused on the two model species of *Shewanella oneidensis* and *Geobacter sulfurreducens*. **Monitoring Water Quality 7. Analytical Measurements to Improve Nonpoint Pollution Assessments in Indiana's Lake Michigan Watershed** *Elsevier Inc. Chapters* **Frontiers in Biochip Technology** *Springer Science & Business Media* **Frontiers in Biochip Technology** Dr. Wan-Li Xing and Dr. Jing Cheng *Frontiers in Biochip Technology* serves as an essential collection of new research in the field of biochip technology. This comprehensive collection covers emerging technologies and cutting -edge research in the field of biochip technology, with all chapters written by the international stars of this evolving field. Key topics and current trends in biochip technology covered include: -microarray technology and its applications - microfluidics - drug

discovery - detection technology - lab-on-chip technology and bioinformatics. **Frontiers in Biochip Technology** is an important volume for all biotechnologists, bioengineers, genetic engineers, pharmacological researchers, and general bench researchers who want to be up-to-date on the latest advances in the rapidly growing field of biochip technology. The Editors: Dr. Wan-Li Xing, Tsinghua University School of Medicine, National Engineering Research Center for Beijing Biochip Technology (NERCBBT), and CapitalBio Corporation, Beijing, China Dr. Xing is a Professor at Medical Systems Biology Research Center, Tsinghua University School of Medicine, and also serves as the Executive Deputy Director at NERCBBT, CapitalBio Corporation, a world-leader in biochip research. Dr. Xing has published widely and obtained many patents and applications. Dr. Jing Cheng, Tsinghua University School of Medicine, National Engineering Research Center for Beijing Biochip Technology (NERCBBT), and CapitalBio Corporation, Beijing, China Dr. Jing Cheng is the Cheung Kong Professor at Medical Systems Biology Research Center, Tsinghua University School of Medicine, the Director of NERCBBT and CEO & CTO of CapitalBio. Dr. Cheng developed the world's first system of laboratory-on-a-chip in 1998; this work was featured in the front-cover story of the June 1998 issue of *Nature Biotechnology* and cited as the breakthrough of the year by *Science* in the same year. He has been awarded Nanogen's most prestigious award Nano Grant, Distinguished Achievement Award for Overseas Chinese Scholars Returned, China's Science & Technology Award for Outstanding Youth, and Qiushi Technology Transfer Award for Outstanding Youth. Dr. Cheng has published over 90 peer-reviewed papers. In addition, he has obtained over 60 European and U.S. patents and applications. **Neuropeptide Technology Synthesis, Assay, Purification, and Processing** *Academic Press Methods in Neurosciences, Volume 6: Neuropeptide Technology: Synthesis, Assay, Purification, and Processing* describes procedures and tools of assay useful for the identification, purification, and quantification of neuropeptides and their receptors. This volume is divided into four sections— chemical synthesis and biosynthesis; measurement of neuropeptides; purification and characterization; and neuropeptide degrading and processing enzymes. In these sections, this book specifically discusses the synthesis of peptide substrates for protein kinase C; synthesis of glycosyl neuropeptides; and ultrastructural localization of peptides. The measurement of neurokinin B by radioimmunoassay; purification and characterization of neuroendocrine peptides from rat brain; and preparation of glia maturation factor β are also elaborated. This text likewise covers the assays for arginine/lysine carboxypeptidases and enzymes that metabolize atrial natriuretic peptide. This publication is beneficial to neuroscientists and students researching on the synthesis, assay, purification, and processing of neuropeptides. **Enzyme Assays A Practical Approach** *Practical Approach Topics* include experimental protocols covering photometric, radiometric, HPLC, and electrochemical assays, along with methods for determining enzyme assays after gel electrophoresis. Recent advances of research in antinutritional

factors in legume seeds and oilseeds **Proceedings of the fourth international workshop on antinutritional factors in legume seeds and oilseeds** *Wageningen Academic Publishers* This series of meetings bring together experts working in this field of Science from throughout the world. A major feature of each conference session is an invited review, which outlines the advances that have been made in a particular area since the last meeting. A major factor that was considered at this meeting was the likely impact of plant genetic modification on the nutritional quality of their seeds for human and animal feeding. As an example already a number of legume species and rapeseed have been modified to improve the sulphur amino acid content of their seed and thus their protein quality. Besides the major grain legume species and rapeseed that had been discussed at previous meetings in this series number of crop products, as potential protein sources, for animal feeding, were considered for the first time. These included cottonseed meal, linseed meal, and sunflower seed meal. The potential of some new exotic crops from Mexico was also covered including Mexican species of the genus *Lupinus* and a Mexican plant from the same family as castor bean, which has a very high oil content but is usually toxic. Work from Cuba compared the nutritional characteristics of soybean with a range of tropical grain legume species, which have received little previous attention. A major change at this meeting was the greater consideration of the effects, both positive, and negative, of the consumption of these seeds for human nutrition. A major review on the development of allergenicity to legume seed in humans is included. There was also consideration of the potential role of antinutritional factors in reducing the growth of various types of tumour cells. The presented papers also suggest that the consumption of legume seed in the diet can potentially reduce serum cholesterol levels. Overall from the 5 conference sessions there are 52 papers. Of these 7 are major invited reviews on the current state of research in this important area for human and animal feeding. **Arsenic Exposure and Health Effects** *Springer Science & Business Media* **The Society of Environmental Geochemistry and Health (SEGH) Second International Conference on Arsenic Exposure and Health Effects** was held June 12-14, 1995 in San Diego, California. The conference was attended by 152 people who heard 41 presentations on all aspects of arsenic research. The speakers represented 14 countries. Approximately 40 of the participants and speakers were from countries other than the US. The participants represented government, academia, industry and the interested public. The sponsorship of the conference is a good indication of the wide spread interest in the subject and the meeting. The sponsors, in addition to SEGH, were the US Environmental Protection Agency (US EPA), the Agency for Toxic Substances and Disease Registry (ATSDR), the Atlantic Richfield Company (ARCO), the Electric Power Research Institute (EPRI), the American Water Works Association Research Foundation (AWWARF), Kennecott Corporation, the American Smelting and Refining Company (ASARCO), and the International Council on Metals in the Environment (ICME). The funding was split approximately

equally between industry (including industrial organizations such as EPRI) and government. In addition to the many fine presentations, the meeting provided a forum for scientists from different countries to compare experiences and share information. It also provided a forum for the discussion of both scientific and policy issues between representatives of various governmental bodies (at the local, state, and federal level) and representatives of various industrial organizations. These discussions occurred both in the formal meetings and informal settings during the meeting.

Rapid methods for food and feed quality determination *Wageningen Academic Publishers* There is an ever-increasing need for rapid methods and instrumentation in the field of food and feed quality. Key issues dealt with in the food and feed industry include: monitoring of processes at all stages; showing due diligence in the control of food and nutritional quality; achieving rapid results for detecting (micro)biological, chemical and physical deterioration of food and feed; and finally, detecting rapidly and reliably food authenticity and/or adulteration. Developments in analytical techniques have led to the emergence of a wide range of rapid methods to complement the traditional methods. Faster results, higher productivity, lower costs and increased sensitivity are key concepts for all those involved in writing this book. Key topics include: emerging rapid technologies; rapid monitoring of food and nutritional quality; rapid testing of quality deterioration and spoilage; rapid testing of authenticity and adulteration; quality tracking & tracing and rapid testing. The methods and techniques presented here, in their varying degree of complexity, will be a valuable resource for researchers and professionals from the food and feed industry as well as from the scientific community. This book is an ideal supplement to "Rapid Methods for biological and chemical contaminants in food and feed" as published in 2005.

Practical Methods in Cardiovascular Research *Springer* Scientists working or planning to work in the field of cardiovascular research will welcome *Methods in Cardiovascular Research* as the reference book they have been waiting for. Not only general aspects of cardiovascular research are well presented but also detailed descriptions of methods, protocols and practical examples. Written by leading scientists in their field, chapters cover classical methods such as the Langendorff heart or working heart models as well as numerous new techniques and methods. Newcomers and experienced researchers alike will benefit from the troubleshooting guide in each chapter, the extensive reference lists for advanced reading and the great practical experience of the authors. *Methods in Cardiovascular Research* is a "must have" for anybody with an interest in cardiovascular research.

Signal Transduction Protocols *Springer Science & Business Media* Carrying on the high standards of the much-acclaimed first edition, highly experienced investigators have extensively updated the first edition with many of the new approaches that have been transforming the field. Included in this new edition are readily reproducible immunoassays, fluorescence-based assays, high-throughput methods, protein modification assays, lipid second messenger assays, and

chromatin immunoprecipitation techniques. **Satellite Derived Global Ocean Product Validation/Evaluation** *MDPI* Ocean satellite remote sensing plays important roles in the observations of physical, biological and biogeochemical features in inland, coastal, and global ocean waters, with high temporal and spatial resolution. The satellite-measured ocean products are used for near-real-time ocean monitoring and climate data records to understand short-/long-term variabilities in marine environments and ecosystems as well as for decision making tools to manage social, economic, and environmental benefits. Validation/evaluation including a combination of field measurements and inter-satellite comparison is an essential step in providing more accurate satellite-derived ocean products. In this Special Issue, 14 papers have been published and include research on validation/evaluation, retrieval algorithms of ocean geophysical and biogeochemical parameters, and application of the satellite ocean products in the regional and global ocean. Subjects treated include: Sea Surface Temperature; Sea Ice Surface Temperature from VIIRS thermal infrared sensor; Sea Ice Detection from Spectroradiometer; Sea Surface Winds from HY-2A Scatterometer and GNSS—Reflectometry; Wave Height from Sentinel-3A SAR; Retrievals of Sea Surface Salinity, Chlorophyll-a, Particulate Organic Carbon, Particulate Backscattering, Marine Fishery resource, and Submesoscale Eddies from multiple Ocean Colour sensors.

Monitoring Water Quality Pollution Assessment, Analysis, and Remediation *Newnes* Monitoring Water Quality is a practical assessment of one of the most pressing growth and sustainability issues in the developed and developing worlds: water quality. Over the last 10 years, improved laboratory techniques have led to the discovery of microbial and viral contaminants, pharmaceuticals, and endocrine disruptors in our fresh water supplies that were not monitored previously. This book offers in-depth coverage of water quality issues (natural and human-related), monitoring of contaminants, and remediation of water contamination. In particular, readers will learn about arsenic removal techniques, real-time monitoring, and risk assessment. Monitoring Water Quality is a vital text for students and professionals in environmental science, civil engineering, chemistry — anyone concerned with issues of water analysis and sustainability assessment. Covers in depth the scope of sustainable water problems on a worldwide scale Provides a rich source of sophisticated methods for analyzing water to assure its safety Describes the monitoring of contaminants, including pharmaceutical and endocrine disruptors Helps to quickly identify the sources and fates of contaminants and sources of pollutants and their loading

Diabetes Mellitus Methods and Protocols *Springer Science & Business Media* Leading researchers and clinical investigators describe their best cutting-edge techniques for studying, at both the molecular and biochemical levels, the defects in insulin production and action associated with diabetes.

Metabolomics *BoD - Books on Demand* Metabolomics is a rapidly emerging field in life sciences, which aims to identify and quantify metabolites in a biological system. Analytical chemistry is combined with sophisticated informatics and

statistics tools to determine and understand metabolic changes upon genetic or environmental perturbations. Together with other 'omics analyses, such as genomics and proteomics, metabolomics plays an important role in functional genomics and systems biology studies in any biological science. This book will provide the reader with summaries of the state-of-the-art of technologies and methodologies, especially in the data analysis and interpretation approaches, as well as give insights into exciting applications of metabolomics in human health studies, safety assessments, and plant and microbial research. *Wheat Gluten Royal Society of Chemistry Bread, pasta, noodles ...* some of the many ways in which humans consume wheat after processing has taken place. The gluten proteins of wheat grain, which determine the processing properties of wheat flour, have been the subject of intensive study for many years. The structures, genetics and functional properties of this unique group of proteins are the focus of this book. Providing a unique "snapshot" of the most exciting current research in the area, this wide-ranging book encompasses topics such as biotechnology; analysis, purification and characterization; quality testing; and environmental impacts. Contributions come from academia, government laboratories and industry throughout the world, and will be welcomed by practitioners in a variety of fields including the food, biological and agricultural sciences. *Microarrays Volume 1: Synthesis Methods Springer Science & Business Media Microarray Technology, Volumes 1 and 2*, present information in designing and fabricating arrays and binding studies with biological analytes while providing the reader with a broad description of microarray technology tools and their potential applications. The first volume deals with methods and protocols for the preparation of microarrays. The second volume details applications and data analysis, which is important in analyzing the enormous data coming out of microarray experiments. Among the topics discussed in *Volume 1: Synthesis Methods*, are matrices in the synthesis of microarrays, array optimization processes, array-based comparative genomic hybridization, 60-mer oligonucleotide probes, bifunctional reagents NTMTA and NTPAC, and high density arrays using digital microarray synthesis platforms. Other topics include multiplex ligation-dependent probe amplification (MLPA), hybridization conditions in situ-synthesized oligo arrays, peptide arrays, high density replication tools (HDRT), protocols for the quantification of oligo hybridization, glyco-bead arrays, and an investigation into the emerging nano technology. *Microarray Technology, Volumes 1 and 2*, provide ample information to all levels of scientists from novice to those intimately familiar with array technology. *Land Disposal, Remedial Action, Incineration and Treatment of Hazardous Waste Proceedings of the Fourteenth Annual Research Symposium at Cincinnati, Ohio, May 9-11, 1988 The Gluten Proteins Royal Society of Chemistry* This book brings together recent, international contributions to the study of gluten proteins from leading experts in the field. Gluten proteins have gained greater importance due not only to their fundamental role in determining technological quality of wheat end products, but also

to the apparently increased number of people showing different degrees of gluten intolerance or allergy. Along with classical subjects such as gluten genetics, quality and rheology, *The Gluten Proteins* covers new tools and research fields, including the use of proteomics and genomics. Furthermore, information dedicated to intolerances and allergies is included and opens the possibility to widen future research opportunities, promoting cooperation between wheat breeders, medical researchers and gluten chemists and geneticists. *The Gluten Proteins* provides an authoritative source of information for researchers, professionals and postgraduate students wishing to increase their knowledge of the molecular bases of gluten functionality and nutritional role, as well as touching on possible future research opportunities. *Computer-assisted Method Development for High-performance Liquid Chromatography Elsevier Science Limited* This book deals with the use of the computer as an aid in selecting adequate or optimum conditions for a given analytical separation. Originally published as Volume 485 of the *Journal of Chromatography*, it has now been reprinted in book form, since the information is so useful that many chromatographers want a copy readily available in the lab. An extensive Introduction is added to the book edition. This surveys the field and refers to the pages where particular items are discussed in the book. The addition of a Glossary of Terms, an Author Index and a Subject Index make this book an invaluable source of easily consulted information for the practising chromatographer. For the purpose of this book, computer-assisted method development will be limited to specific procedures which are intended to be used with a computer - rather than their manually applied precursors. In that sense, the subject can be considered to have begun around 1980. The ongoing, intense research activity into various forms of computer assisted HPLC method development provides the assurance that this approach can really assist the practical chromatographer working in an industrial laboratory. *Lipids Academic Press* Lipids are a broad group of naturally occurring molecules which includes fats, waxes, sterols, fat-soluble vitamins (such as vitamins A, D, E and K), monoglycerides, diglycerides, phospholipids, and others. The main biological functions of lipids include energy storage, as structural components of cell membranes, and as important signaling molecules. This volume of *Methods in Cell Biology* covers such areas as Membrane structure and dynamics, Imaging, and Lipid Protein Interactions. It will be an essential tool for researchers and students alike. Covers such areas as membrane structure and dynamics, imaging, and lipid protein interactions An essential tool for researchers and students alike International authors Renowned editors *Hyperthermophilic Enzymes Elsevier* The critically acclaimed laboratory standard for more than forty years, *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. Now with more than 300 volumes (all of them still in print), the series contains much material still relevant today-truly an essential publication for researchers in all

fields of life sciences. This volume and its companions (Volumes 330 and 331) cover all current knowledge concerning hyperthermophilic enzymes. Major topics in this volume include redox and thiol-dependent proteins, nucleic acid modifying enzymes, and protein stability from biochemical and biophysical standpoints. *Hyperthermophilic Enzymes Academic Press* The critically acclaimed laboratory standard for more than forty years, *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. Now with more than 300 volumes (all of them still in print), the series contains much material still relevant today-truly an essential publication for researchers in all fields of life sciences. This volume and its companions (Volumes 330 and 331) cover all current knowledge concerning hyperthermophilic enzymes. Major topics in this volume include redox and thiol-dependent proteins, nucleic acid modifying enzymes, and protein stability from biochemical and biophysical standpoints. *Male Infertility Contemporary Clinical Approaches, Andrology, ART & Antioxidants Springer Science & Business Media* A ground-breaking contribution to the literature, *Male Infertility: Contemporary Clinical Approaches, Andrology, ART & Antioxidants* offers a comprehensive review of well-established, current diagnostic and treatment techniques for male infertility. This state-of-the-art, evidence-based resource incorporates new multidisciplinary and complementary medicine approaches to create a first-of-its-kind guide to treatment strategies involving antioxidants for male infertility. Designed as an easily accessible practical reference for daily use, *Male Infertility: Contemporary Clinical Approaches, Andrology, ART & Antioxidants* provides a high quality guide for urologists, reproductive endocrinologists, embryologists, andrologists, biologists and research scientists interested in the role that antioxidants play in male infertility. *Targeting of Drugs 4 Advances in System Constructs Springer Science & Business Media* The NATO Advanced Studies Institute series "Targeting of Drugs" was originated in 1981. It is now a major international forum, held every two years in Cape Sounion, Greece, in which the present and the future of this important area of research in drug delivery is discussed in great depth. Previous ASIs of the series dealt with drug carriers of natural and synthetic origin, their interaction with the biological milieu, ways by which the latter influences such interaction, strategies by which milieu interference curtailing the function of drug carriers is circumvented and, more recently, with the application of drug carriers for the delivery of peptides and proteins. The present book contains the of the 7th NATO ASI "Targeting of Drugs: Advances in System Constructs", proceedings held in Cape Sounion during 24 June -5 July 1993. As the title implies, the book deals with a variety of approaches to carrier design or modification that contribute to optimal carrier function. to Mrs Concha Perring for her assistance with the We express our appreciation organization of the ASI. We thank Dr. G. Deliconstantinos who, as chairperson of the Local Committee, contributed to the success of the Institute. The ASI was

held under the sponsorship of NATO Scientific Affairs Division and co-sponsored and generously financed by SmithKline Beecham Pharmaceuticals (King of Prussia). Financial assistance was also provided by Liposome Technology Inc. (Menlo Park), Vestar Inc. (San Dimas) and Zeneka (Macclesfield). The Journal of Immunology Optical Coherence Tomography Principles and Applications *Elsevier* Optical Coherence Tomography gives a broad treatment of the subject which will include 1) the optics, science, and physics needed to understand the technology 2) a description of applications with a critical look at how the technology will successfully address actual clinical need, and 3) a discussion of delivery of OCT to the patient, FDA approval and comparisons with available competing technologies. The required mathematical rigor will be present where needed but be presented in such a way that it will not prevent non-scientists and non-engineers from gaining a basic understanding of OCT and the applications as well as the issues of bringing the technology to the market. Optical Coherence Tomography is a new medical high-resolution imaging technology which offers distinct advantages over current medical imaging technologies and is attracting a large number of researchers. Provides non-scientists and non-engineers basic understanding of Optical Coherence Tomography applications and issues.