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This classic and bestselling landmark publication, originally published in 1965, examines the dynamic mechanisms, fundamental principles, and physical properties of various chromatographic procedures. It offers methods to characterize, identify, and predict chromatographic phenomena - providing strategies to select the most appropriate separation tools and techniques for specific applications in chemistry, physics, biology, and forensic and environmental science. Written by a world-renowned pioneer in the field, Dynamics of Chromatography contains many worked equations and real-world examples in gas and liquid chromatography. It includes numerous schematic figures for visualization of key concepts, introduces the means to control migration rate differences and zone spreading, and presents a detailed random-walk model for clarification of column processes. It also analyzes flow, diffusion, and kinetic events, stresses the link between theory and practice, and summarizes mathematical quantities and parameters. Annotated catalogue of the plants collected on the Royal Danish Expedition to Egypt and the Yemen 1761-1763, presented with introductory text by I. Friis. Microbiome Stimulants for Crops: Mechanisms and Applications provides the latest developments in the real-world development and application of these crop management alternatives in a cost-effective, yield protective way. Sections address questions of research, development and application, with insights into recent legislative efforts in Europe and the United States. The book includes valuable information regarding mechanisms and the practical information needed to support the growing microbial inoculant and biostimulant industry, thus helping focus scientific research in new directions. Provides methods for finding and testing endophytic and growth promotional microbes Explains the mechanisms of microbes and other biostimulant function in promoting plant growth Evaluates methods for treatments of plants with microbes and microbiome stimulants Identifies areas for new research The second edition of Fundamentals of Preparative and Nonlinear Chromatography is devoted to the fundamentals of a new process of purification or extraction of chemicals or proteins widely used in the pharmaceutical industry and in preparative chromatography. This process permits the preparation of extremely pure compounds satisfying the requests of the US Food and Drug Administration. The book describes the fundamentals of thermodynamics, mass transfer kinetics, and flow through porous media that are relevant to chromatography. It presents the models used in chromatography and their solutions, discusses the applications made, describes the different processes used, their numerous applications, and the methods of optimization of the experimental conditions of this process. The series Advances in Polymer Science presents critical reviews of the present and future trends in polymer and biopolymer science. It covers all areas of research in polymer and biopolymer science including chemistry, physical chemistry, physics, material science.The thematic volumes are addressed to scientists, whether at universities or in industry, who wish to keep abreast of the important advances in the covered topics.Advances in Polymer Science enjoys a longstanding tradition and good reputation in its community. Each volume is dedicated to a current topic, and each review critically surveys one aspect of that topic, to place it within the context of the volume. The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically, presenting selected examples, explaining and illustrating the important principles, and bringing together many important references of primary literature. On that basis, future research directions in the area can be discussed. Advances in Polymer Science volumes thus are important references for every polymer scientist, as well as for other scientists interested in polymer science - as an introduction to a neighboring field, or as a compilation of detailed information for the specialist.Review articles for the individual volumes are invited by the volume editors. Single contributions can be specially commissioned.Readership: Polymer scientists, or scientists in related fields interested in polymer and biopolymer science, at universities or in industry, graduate students "A show-and-tell guide to clothing, footwear, backpacks, shelter and sleep systems, camp stoves, and more, as well as tips on foot care, campsite selection, and hiking efficiency, this single book contains all the knowledge you'll need to hit the trail, "--Amazon.com. Ion Exchange Technology serves both as a reference and as a text book for technologists and engineers. While the present book is based mainly on ion exchange as practiced in the United States, the object was to produce a generally useful book which would deal with the fundamental problems, techniques, and operations of ion exchange such as mass transfer, equipment design, properties of ion exchange resins, and deionization. Also include are chapters on two types of applications—those that are used industrially on a large scale, and those which have not yet reached large-scale use but have impressive potentialities. In both the fundamental and applied chapters it was deemed necessary that the successful aspects of ion exchange operation be included. In addition, it was equally important to describe the problems and the inherent complexities encountered in the setting up of an ion exchange process. Wherever possible the economic factors were described realistically. Bringing together information widely distributed throughout scientific and industrial journals, here is an overview of the chemical consititution and properties of clay minerals and the environmental conditions that lead to their formation. Provides a detailed picture of the chemical consititution of the eight main groups of clay minerals containing silica and of the non-siliceous oxide clays. The central section of the book deals with the properties of clays: their colloidal behavior, cation exchange, interaction with water, reactions on heating, catalytic properties, and reactions with organic compounds. Also discusses the chemical conditions that favor the formation of clays and their evolution or decomposition into other materials. Handbook of Bioremediation: Physiological, Molecular and Biotechnological Interventions discusses the mechanisms of responding to inorganic and organic pollutants in the environment using different approaches of phytoremediation and bioremediation. Part One focuses specifically on inorganic pollutants and the use of techniques such as metallothionein-assisted remediation, phytoextraction and genetic manipulation. Part Two covers organic pollutants and consider topics such as plant enzymes, antioxidant defense systems and the remediation mechanisms of different plant species. This comprehensive volume is a must-read for researchers interested in plant science, agriculture, soil science and environmental science. The techniques covered in this book will ensure scientists have the knowledge to practice effective bioremediation techniques themselves. Provides a comprehensive review of the latest advances in bioremediation of organic and inorganic pollutants Discusses a range of different phytoremediation techniques Evaluates the role of genomics and bioinformatics within bioremediation In October 1982, a small international symposium was held at the Gesellschaft fUr Strahlen- und Umweltforschung mbH (GSF) in Munich as a satellite meeting of the IX International Conference on Analytical Cytology. The symposium focussed on cytometric approaches to biological dosimetry, and was, to the best of our knowledge, the first meeting on this subject ever held. There was strong encouragement from the 75 attendees and from others to publish a proceedings of the symposium. Hence this book, containing 30 of the 36 presentations, has been assembled. Dosimetry, the accurate and systematic determination of doses, usually refers to grams of substance administered or rads of ionization or some such measure of exposure of a patient, a victim or an experimental system. The term also can be used to describe the quantity of an ultimate, active agent as delivered to the appropriate target material within a biological system. Thus, for mutagens, one can speak of DNA dosimetry, meaning the number of adducts produced in the DNA of target cells such as bone-mar row stem cells or spermatogonia. Papers presented at the SCI Conference IEX '92 - Ion Exchange Advances, held at Churchill College, Cambridge, UK, 12-17 July 1992 Mip Synthesis, Characteristics and Analytical Application, Volume 86 in the Comprehensive Analytical Chemistry series, highlights advances in the field, with this new volume presenting interesting chapters on synthesis and polymerization techniques of molecularly imprinted polymers, Solid phase extraction technique as a general field of application of molecularly imprinted polymer materials, Advanced artificially receptor- based sorbents for solid phase extraction using molecular imprinting technology: a new trend in food analysis, Application of molecularly imprinted polymers in microextraction and solventless extraction techniques, Magnetic molecularly imprinted microspheres – analytical approach, Surface Imprinted Micro- and Nanoparticles, and much more. Contains a valuable source of information on the wide spectrum of application fields of molecularly imprinted polymers as a green sorption medium Describes the application potential of currently molecular imprinting technologies, associated with the solid phase extraction techniques, magnetic imprinted microspheres, sorbents in mass spectrometry, and imprinted polymer electrochemical sensors The recent revolution in molecular biology offers exciting new opportunities for targeted radionuclide therapy. This up-to-date, comprehensive book, written by world-renowned experts, discusses the basic principles of radionuclide therapy, explores in detail the available treatments, explains the regulatory requirements, and examines likely future developments. The full range of clinical applications is considered, including thyroid cancer, hematological malignancies, brain tumors, liver cancer, bone and joint disease, and neuroendocrine tumors. The combination of theoretical background and practical information will provide the reader with all the knowledge required to administer radionuclide therapy safely and effectively in the individual patient. Careful attention is also paid to the role of the therapeutic nuclear physician in coordinating a diverse multidisciplinary team, which is central to the safe provision of treatment. This is the third in the series of volumes of essays that Robin Fox began with Reproduction and Succession and continued with The Challenge of Anthropology. Fox who has been described as "the conscience of anthropology" continues to have the same aim: to expose readers in the social sciences and beyond to the consequences of "the biosocial orientation," and to assess the "state of the art" in anthropology in particular and the social sciences in general. As always he encompasses a wide range of topics: Why do bureaucracies fail? Are we really an innovative animal? Is nationalism a purely constructed phenomenon? What is the role of sexual competition in epic literature? In all these enquiries he tries to show in non-technical language how the evolutionary approach throws new light on old problems--and even raises new and more interesting problems. He pursues the issue of whether we have a naturally developed moral sense, and if so what it could possibly be (on the way attempting a definitive definition of the good); he looks at the status of the idea of self-interest in economic and biological science; he examines the current state of archaeology as a basis for a renewed scientific anthropology; and he tries to adjudicate the debate between the scientific and humanistic camps in the social sciences. The Visual Dictionary of Architecture is a comprehensive guide to the numerous terms associated with, and used within, the field of architecture. Over 250 architectural terms are explained and contextualised, with concise definitions accompanied by illustrations and examples taken from historical and contemporary architecture. The dictionary covers traditional terms still in current usage, modern terminology and a wide variety of practical terms, movements and styles. A Comprehensive Handbook of Statistical Concepts, Techniques and Software Tools. The biorefinery, integration of processes and technologies for biomass conversion, demands efficient utilization of all components. Hydrothermal processing is a potential clean technology to convert raw materials such as lignocellulosic and aquatic biomass into bioenergy and high added-value compounds. This book aims to show fundamental concepts and key technological developments that enabled industrial application of hydrothermal processing. The scope of this book is primarily for scientists working in the biorefinery field as well as engineers from industry and potential investors in biofuels. Therefore, the information in this book will provide an overview of this technology applied to lignocellulosic materials and aquatic biomass, and especially new knowledge. Critically, this book brings together experts in the application of hydrothermal processes on lignocellulosic and aquatic biomass. This book presents the state of the art on thermophysical and thermochemical properties, fabrication methodologies, irradiation behaviours, fuel reprocessing procedures, and aspects of waste management for oxide fuels in general and for thoria-based fuels in particular. The book covers all the essential features involved in the development of and working with nuclear technology. With the help of key databases, many of which were created by the authors, information is presented in the form of tables, figures, schematic diagrams and flow sheets, and photographs. This information will be useful for scientists and engineers working in the nuclear field, particularly for design and simulation, and for establishing the technology. One special feature is the inclusion of the latest information on thoria-based fuels, especially on the use of thorium in power generation, as it has less proliferation potential for nuclear weapons. Given its natural abundance, thorium offers a future alternative to uranium fuels in nuclear technology. In closing, the latest information on conventional uranium and plutonium fuels is also provided. In this comprehensive, practical guide, award-winning photojournalist Stacy Pearsall offers the techniques, guidance, and inspiration needed to succeed in the dynamic and exciting field of photojournalism. Starting with an overview of photojournalism and her experience as both a combat and domestic photographer, Stacy covers the basics of preparing for assignments, discussing such key topics as selecting suitable attire for different environments, assembling essential camera gear, developing the right approach for a story, and honing your shooting technique. beyond the fundamentals, Stacy then dives into the nitty-gritty details of photojournalism work, providing insights into living and working in harsh conditions, maintaining physical and mental health, and managing relationships with subjects. The book interweaves hundreds of Stacy’s amazing photographs with stories of her experiences in the field, providing context for advice on everything from navigating unfamiliar locations, to properly exposing your images, to building innovative multimedia projects. Follow her into "the trenches" for the fascinating stories behind the shots, which show by example how to get the best photographs you can, even under the most challenging circumstances. Features stunning full-color images from some of the author’s most dramatic moments as a photojournalist Offers insights on preparing for long-term assignments, working in austere environments, and reintegrating into society after a project Interweaves photography techniques with advice on interacting with subjects and creating compelling stories Ion-exchange Technology I: Theory and Materials describes the theoretical principles of ion-exchange processes. More specifically, this volume focuses on the synthesis, characterization, and modelling of ion-exchange materials and their associated kinetics and equilibria. This title is a highly valuable source not only to postgraduate students and researchers but also to industrial R&D specialists in chemistry, chemical, and biochemical technology as well as to engineers and industrialists. The present edited book is the presentation of 18 in-depth national and international contributions from eminent professors, scientists and instrumental chemists from educational institutes, research organizations and industries providing their views on their experience, handling, observation and research outputs on HPTLC, a multi-dimensional instrumentation. The book describes the recent advancements made on TLC which have revolutionized and transformed it into a modern instrumental technique HPTLC. The book addresses different chapters on HPTLC fundamentals: principle, theory, understanding; instrumentation: implementation, optimization, validation, automation and qualitative and quantitative analysis; applications: phytochemical analysis, biomedical analysis, herbal drug quantification, analytical analysis, finger print analysis and potential for hyphenation: HPTLC future to combinatorial approach, HPTLC-MS, HPTLC-FTIR and HPTLC-Scanning Diode Laser. The chapters in the book have been designed in such away that the reader follows each step of the HPTLC in logical order. These essays by eleven internationally renowned historians present nuanced profiles of the major social and professional groups—the callings-of the Middle Ages. The contributors focus on attitudes of medieval men and women toward their own society. Through a variety of techniques, from a reading of the Song of Roland to a reading of administrative records, they identify characteristic viewpoints of members of the fighting class, the clergy, and the peasantry. Along with vivid descriptions of what life was like for warrior knights, monks, high churchmen, criminals, lepers, shepherds, and prostitutes, this innovative approach offers a valuable new perspective on the complex social dynamics of feudal Europe. "Very useful discussions of texts, both learned and literary."—Christopher Dyer, Times Literary Supplement Contributors: Mariateresa Fumagalli Beonio Brocchieri, Franco Cardini, Enrico Castelnuovo, Giovanni Cherubini, Bronislaw Geremek, Aron Ja. Gurevich, Christiane Klapisch-Zuber, Jacques Le Goff, Giovanni Miccoli, Jacques Rossiaud, and André Vauchez. This book aims to fill the gap that exists between theoretical treatments of chromatography, and clinical chemistry and toxicology texts, which focus almost exclusively on clinical relevance and applications. Chromatography has a vast array of clinical applications, and though the chromatographic methods were first introduced decades ago, new applications of this technology are being used to explore previously inaccessible frontiers in clinical diagnostics and toxicological testing. An up-to-date book devoted to clinical and toxicological applications of chromatographic methods will serve as an instructional and reference text, useful to students, laboratory technicians, and researchers. Grapevine is a crop of major economical interest, and wine represents a multicultural heritage which has been growing since several milleniums. Yet, modern viticulture must face several challenges. Global climate has increased berry sugar content (and alcohol in the wine) whereas phenolic and aromatic ripeness are not always achieved. Water supply is becoming shorter. New varieties better adapted to new climatic conditions might have to be planted, which may affect wine typicity. Phytochemical treatments are more controlled, and the consumer pays increasing attention to environmentally safe practices. New methods reducing pesticide use, but maintaining yield and typicity, must be designed. The present book illustrates the recent progress made in ecophysiology, molecular and cell biology, and pathology of grapevine, as well as in precision viticulture and berry composition. Combination of these new tools with field observations will undoubtly make it easier to face the challenges described above. These multidisciplinary contributions will be of interest to anyone involved in grapevine and wine activities. This book examines stealth liposomes from a multidisciplinary approach, which includes theoretical polymer physics, organic synthesis, colloid science, and biology. Discussions include theory, chemistry, biochemistry, pharmacology, preclinical studies in model systems, and medical applications in humans. Market_Desc: · Undergraduate Chemistry Students· Chemists Special Features: · Dimensional analysis is emphasized throughout the text as an aid in problem solving· The Problems and Recommended References are grouped by topic. There are 673 questions and problems· Margin notes emphasize important concepts and are a tool for review· Fully updated to include new chapters on good laboratory practice, genomics and proteomics, as well as coverage of spectral databases (Web-based and free), chromatography nomenclature, and simulation About The Book: This text is designed for the

undergraduate one-term Quantitative Analysis course for students majoring in Chemistry and related fields. It deals with principles and techniques of quantitative analysis. Examples of analytical techniques are drawn from such areas as life sciences, clinical chemistry, air and water pollution, and industrial analyses. This book describes separation and purification techniquesùadsorption, ion exchange and liquid chromatography on solid supportsùused for fermentation and biochemical feedstreams. Emphasis is placed on basic sorption theory, laboratory evaluation techniques, sorptive materials and their characteristics, scale-up of laboratory techniques, and their industrial applications. Each chapter contains specific examples illustrating the use of purification techniques in biotechnology processes.

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