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Many hydrological, geochemical, and biological processes associated with water reclamation and reuse are poorly understood. In particular, the occurrence and effects of trace organic and inorganic contaminants commonly found in reclaimed water necessitates careful analysis and treatment prior to safe reuse. Water Reclamation and Sustainability is a practical guide to the latest water reclamation, recycling, and reuse theory and practice. From water quality criteria and regulations to advanced techniques and implementation issues, this book offers scientists a toolkit for developing safe and successful reuse strategies. With a focus on specific contaminant removal techniques, this book comprehensively covers the full range of potential inorganic/organic contaminating compounds and highlights proven remediation methods. Socioeconomic implications related to current and future water shortages are also addressed, underscoring the many positive benefits of sustainable water resource management. Offers pragmatic solutions to global water shortages Provides an overview of the latest analytical techniques for water monitoring Reviews current remediation efforts Covers innovative technologies for green, gray, brown and black water reclamation and reuse In today's fast-moving world, time is always a problem. Yet we have to read in order to keep up with what is going on around the world. Speed reading is what will tide us over. In this book you will learn how to skim through the pages of a book, passing over what is unnecessary. You will also widen your span of recognition and comprehend all that is said. What does a teenage girl dream about in Nigeria or New York? How does she spend her days in Mongolia, the Midwest, and the Middle East? All around the world, girls are going to school, working, dreaming up big futures—they are soccer players and surfers, ballerinas and chess champions. Yet we know so little about their daily lives. We often hear about challenges and catastrophes in the news, and about exceptional girls who make headlines. But even though the health, education, and success of girls so often determines the future of a community, we don't know more about what life is like for the ordinary girls, the ones living outside the headlines. From the Americas to Europe to Africa to Asia to the South Pacific, the thirty teens from twenty-seven countries in *Girlhood* share their own stories of growing up through diary entries and photographs, and the girls' stories are put in context with reporting and research that helps us understand the circumstances and communities they live in. This full-color, exuberantly designed volume is a portrait of ordinary girlhood around the world, and of the world, as seen through girls' eyes. PROJECT GBA&C recognizes and celebrates the accomplishments of world's renowned artists who have made, and are making, significant contributions in the field of art, producing powerful imagery that continues to captivate, educate, inspire and heal humanity. Engaging art with books "ART EXHIBIT" is one such initiative showcasing the best moments captured by artists across the globe, encapsulating the sheer joy of subtle self-expression behind every art. Editors Panel - PROJECT GBA&C Provides a viable reference, describing the state-of-knowledge on sources of arsenic contamination in ground water, which affects about 100 million people worldwide. With contributions from world-renowned experts in the field, this book explores developments in the transport kinetics, detection, measurement, seasonal cycling, accumulation, geochemistry, removal, and toxicology of arsenic. Includes compelling case studies describing how arsenic contamination occurs and the devastating effects on the people and environment affected by it. The basic objectives of this book are to: provide basic information on chromatography and separation science; show how simple extraction and partition processes provide the basis for development of chromatography and separation science; describe the role of chromatography and separation science in various fields; discuss the role of chromatography and separation science in development of new methodology; and present new evolving methods and how to select an optimum method. · The book covers the fundamental physical and chemical phenomena involved in separations · Provides a concise overview of the basics of transport phenomena and thermodynamics · Shows the importance of chromatography within separation science Discover eight dynamic principles to help innovation flourish from within. The shelf life of well-established companies keeps shrinking as new entrants replace old ones in rapid succession. Even brands that seemed invincible only a few years ago are in danger of being disrupted by fast-moving startups. In this unprecedented environment, how can any business stay ahead of the market? Companies can no longer assume innovation will "just happen"—it must be seeded, grown, and successfully harvested. They must disrupt themselves. In *Disrupt-It-Yourself*, bestselling author and innovation expert Simone Ahuja guides readers through the DIY (Disrupt-It-Yourself) system that will sustain innovation and retain DIYers, the employees—or intrapreneurs—most committed to solving the problems of the future, even if it means moving far beyond "business as usual." Based on her experience working with Fortune 500 companies and extensive research, Ahuja identifies the intrapreneurial archetype and presents eight new principles to foster a DIY mindset and action plan. In a clear, concise style with expert advice and real-world examples, this book provides a new lens to help companies become faster and more fluid, offers easy options to tailor the system to each company's unique circumstances, and presents strategic lessons—from Keep It Frugal to Make It Permission-less—that open up the full spectrum of innovation and make it sustainable. Using the DIY approach, organizations can build their ability to innovate and create an approach for growth that harnesses the creativity and knowledge of employees at every level. This work provides those involved in water purification research and administration with a comprehensive resource of methods for analyzing water to assure its safety from contaminants, both natural and human caused. The book first provides an overview of major water-related issues in developing and developed countries, followed by a review of issues of sampling for water analysis, regulatory considerations and forensics in water quality and purity investigations. The subsequent chapters cover microbial as well chemical contaminations from inorganic compounds, radionuclides, volatile and semi-volatile compounds, disinfectants, herbicides, and pharmaceuticals, including endocrine disruptors, as well as potential terrorist-related contamination. The last chapter describes the Grainger prize-winning filter that can remove arsenic from water sources and sufficiently protect the health of a large number of people. - Covers the scope of water contamination problems on a worldwide scale - Provides a rich source of methods for analyzing water to assure its safety from natural and deliberate contaminants - Describes the filter that won the \$1 million Grainger prize and thereby highlighting an important approach to remediation A result of more than four decades of teaching experience, this book deals with the problems of economic growth, development and eradication of poverty and unemployment. The book also includes an analytical study of important issues of environment and sustainable development. The book not only explains the models and theories of economic growth but also critically evaluates their relevance to developing countries. A major highlight of discussion in the context is the exploration of the widely accepted Amartya Sen's Capability Approach to development. In *Bioinsecurities* Neel Ahuja argues that U.S. imperial expansion has been shaped by the attempts of health and military officials to control the interactions of humans, animals, viruses, and bacteria at the borders of U.S. influence, a phenomenon called the government of species. The book explores efforts to control the spread of Hansen's disease, venereal disease, polio, smallpox, and HIV through interventions linking the continental United States to Hawai'i, Panamá, Puerto Rico, Cuba, Congo, Iraq, and India in the twentieth and twenty-first centuries. Ahuja argues that racial fears of contagion helped to produce public optimism concerning state uses of pharmaceuticals, medical experimentation, military intervention, and incarceration to regulate the immune capacities of the body. In the process, the security state made the biological structures of human and animal populations into sites of struggle in the politics of empire, unleashing new patient activisms and forms of resistance to medical and military authority across the increasingly global sphere of U.S. influence. Neel Ahuja tracks the figure of the climate refugee in public media and policy over the past decade, arguing that journalists, security experts, politicians, and nongovernmental organizations have often oversimplified climate change and obfuscated the processes that drive mass migration. To understand the systemic reasons for displacement, Ahuja argues, it is necessary to reframe climate disaster as interlinked with the history of capitalism and the global politics of race, wherein racist presumptions about agrarian underdevelopment and Indigenous knowledge mask how financial, development, migration, and climate adaptation policies reproduce growing inequalities. Drawing on the work of Cedric Robinson and theories of racial capitalism, Ahuja considers how the oil industry transformed the economic and geopolitical processes that lead to displacement. From South Asia to the Persian Gulf, Europe, and North America, Ahuja studies how Asian trade, finance, and labor connections have changed the nature of race, borders, warfare, and capitalism since the 1970s. Ultimately, Ahuja argues that only by reckoning with how climate change emerges out of longer histories of race, colonialism, and capitalism can we begin to build a sustainable and just future for those most affected by environmental change. If you can point and click a mouse, type on a keyboard and have a basic grasp of the English language then you can make a fortune on the internet if you know what to do. This book will show you exactly what to do. You will learn how to: * Build a website and go live in 1 hour * Accept online payments and set up statements to track your income * Drive traffic to your site by getting your site listed instantly with the major search engines like Yahoo and

Google. * Earn up to GBP10 per click every time someone clicks on your site * Earn up to GBP115 every time someone fills out a form on your site * Get other web publishers to sell your stuff * Create a database of readers you can profit from every time you update your site * Have a chat room, forum and video forum on your website for free * Automatically send out an email everyday with no input from you * Incorporate a search box on your site that makes you money every time someone searches * Add ready-made articles about your chosen subject to your site completely free - simply copy and paste! The book makes a comprehensive and analytical study of theories of demand, production/cost and determination of price and output of products in different market structures. It also discusses theory of factor pricing and income distribution as wages, rent, interest and profits. Above all, it critically analyses the conditions of economic efficiency and maximum social welfare and causes of market failures. It takes a further lead with this revision by aligning its contents with the prescribed UGC model curriculum and new Choice Based Credit System (CBCS) syllabus. Build SOA-based flexible, economical, and efficient applications for IBM WebSphere Process Server 7 and Enterprise Service Bus 7 with this book and eBook. Modern Instrumental Analysis covers the fundamentals of instrumentation and provides a thorough review of the applications of this technique in the laboratory. It will serve as an educational tool as well as a first reference book for the practicing instrumental analyst. The text covers five major sections: 1. Overview, Sampling, Evaluation of Physical Properties, and Thermal Analysis 2. Spectroscopic Methods 3. Chromatographic Methods 4. Electrophoretic and Electrochemical Methods 5. Combination Methods, Unique Detectors, and Problem Solving Each section has a group of chapters covering important aspects of the titled subject, and each chapter includes applications that illustrate the use of the methods. The chapters also include an appropriate set of review questions. * Covers the fundamentals of instrumentation as well as key applications * Each chapter includes review questions that reinforce concepts * Serves as a quick reference and comprehensive guidebook for practitioners and students alike This book is a resumption of the work "Integrated M/E Design: Building Systems Engineering" published by Anil Ahuja in 1997. Together with an international group of authors from the engineering, urban planning, and architecture fields, Mr. Ahuja discussed new trends and paradigms in the smart buildings and smart city sectors and extended the topic of the previous publication from the building to the entire city. A smart, sustainable building is not just about the building itself. There are things happening in the inside of the building and on the outside. A smart building connects the inside with the outside, provides efficiencies on both sides, synchronizes the outside infrastructure with its inside systems, and integrates nature and its occupants in its design. A smart building doesn't just provide technology solutions. It is about constant exchange between the inside and the outside of the building, the contribution of the building to the quality of the entire neighborhood and the rest of the city, how the smart building can connect people in a sharing community, and how technology can be the key to make it happen. Advances in Water Purification Techniques: Meeting the Needs of Developed and Developing Countries provides a variety of approaches to water purification that can help assist readers with their research and applications. Water contamination problems occur frequently worldwide, hence the most updated knowledge on water purification systems can be helpful in employing the right type of filter or other mechanism of decontamination. The problems with arsenic contamination of water in Bangladesh and the lead problem in Flint, Michigan remind us of the need to monitor water pollution rigorously, from both point and non-point sources. Provides a valuable resource on how to solve water contamination problems or develop new approaches to water purification Presents advanced methods for monitoring water contamination Describes various approaches to water purification Encourages new developments in water purification techniques Includes methods for assessing and monitoring environmental contaminants Covers recent advancement in molecular techniques The Book Is Intended To Serve As A Textbook For An Introductory Course In Functional Analysis For The Senior Undergraduate And Graduate Students. It Can Also Be Useful For The Senior Students Of Applied Mathematics, Statistics, Operations Research, Engineering And Theoretical Physics. The Text Starts With A Chapter On Preliminaries Discussing Basic Concepts And Results Which Would Be Taken For Granted Later In The Book. This Is Followed By Chapters On Normed And Banach Spaces, Bounded Linear Operators, Bounded Linear Functionals. The Concept And Specific Geometry Of Hilbert Spaces, Functionals And Operators On Hilbert Spaces And Introduction To Spectral Theory. An Appendix Has Been Given On Schauder Bases. The Salient Features Of The Book Are: * Presentation Of The Subject In A Natural Way * Description Of The Concepts With Justification * Clear And Precise Exposition Avoiding Pendency * Various Examples And Counter Examples * Graded Problems Throughout Each Chapter Notes And Remarks Within The Text Enhance The Utility Of The Book For The Students. After air, water is the most crucial resource for human survival. To achieve water sustainability, we will have to deal with its scarcity and quality, and find ways to reclaim it from various sources. Chemistry and Water: The Science Behind Sustaining the World's Most Crucial Resource applies contemporary and sophisticated separation science and chromatographic methods to address the pressing worldwide concerns of potable water for drinking and safe water for irrigation to raise food for communities around the world. Edited and authored by world-leading analytical chemists, the book presents the latest research and solutions on topics including water quality and pollution, water treatment technologies and practices, watershed management, water quality and food production, challenges to achieving sustainable water supplies, water reclamation techniques, and wastewater reuse. Explores the role water plays to assure our survival and maintain life Provides valuable information from world leaders in chemistry and water research Addresses water challenges and solutions globally to ensure sustainability This volume covers recent advances in the vegetative propagation of woody plants by tissue culture. A wide range of topics relevant to micropropagation of woody plants are discussed by renowned international scientists. These include cellular control of morphogenesis, light regimes in tissue culture, maturation and rejuvenation, synthetic seed, genetics of micropropagated plants, haploid embryogenesis, protoplast culture, and acclimatization of ex vitro woody plants. In addition to micropropagation of selected woody plants, both gymnosperms and angiosperms, this volume also includes in vitro genetic selection, strategic planning for application of biotechnology for genetics and breeding, and clonal options for woody plant improvement. A balanced view of both perspectives and limitations of woody plant micropropagation is presented. Isoelectric focusing (IEF) is a high-resolution, stand-alone technique that can be used as an analytical method or tool for protein purification. The only current book on the market, the Handbook of Isoelectric Focusing and Proteomics is the ideal 'one-stop' source for germane information in this discipline. This highly practical book also contains chapters on alternative methods that may pave the way in the search for efficient techniques for fractionating and purifying proteins. Complete with the history of IEF focusing to authors' insights and practical tips, this book is a must for anyone working in proteomics. * Is the only current book available on the subject * Includes author insights and practical tips * Is an ideal single source for students and researchers working in proteomics 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 ?ABOUT THE BOOK: After the First World War the importance of highways was felt and realized. The concept of highway engineering has changed during the last two decades. The thumb rule concept has become a thing of the past. With the increasing importance of highways for the prosperity and integrity of the country and with the increasing cost of construction and maintenance of highways, the trend of construction, planning and designing has also changed. The Central Road Research Institute and P.W.D. research centers all over the country have contributed a lot in the design, planning road user safety, construction and economy etc. The present work is the outcome of author's long association with the subject as a teacher and as a student. Efforts have been made to present the subject matter in a very lucid and comprehensive manner. The author does not claim any originality but sufficient pains have been taken in compiling important works and Road Research Journals. The subject matter is presented from the introduction so that the book may prove useful to diploma and degree students as well as practising engineers. The book presents acceptable theory and construction practices. Important topics such as bituminous roads, stabilized earth roads, traffic engineering, pavement design and highway planning and economics have been comprehensively dealt. Hill Roads including construction and layout of tunnels have been given special emphasis. Airport engineering, though it is not a part of highway engineering, has also been touched so as to introduce the subject matter. I take this opportunity to express my gratitude to Padamsri R.S. Gahlout, Chairman and Managing Director (Retd). Hindustan Steel Co. Ltd. for his valuable guidance, help and blessings and my friend and colleague Shri G.S. Birdie, Consulting Engineer for the preparation of a large number of drawings and consultations. Any suggestion for the improvement of the book in the forthcoming editions will be thankfully acknowledged and welcomed. For errors or omissions and constructive criticism from the readers and users are welcome. Allahabad T.D. AHUJA 2011 ?OUTSTANDING FEATURES: -Various designs of the Highway Engineering are based on the latest IS Codes. -Several empirical methods of estimating. Evapotranspiration such as modified penman method, hargreaves methods, modified blaney criddle method, etc., are discussed. -Treatment of earthquake forces acting on gravity dams is thoroughly explained. -Detailed discussion regarding the provision of water stops at the contraction joints in gravity dams as per IS Codes is made. -Some aspects of financial analysis of a project are discussed with planning for water resources development. -Number of design problems have been solved in details. -Subject matter is supported by very good diagrams and illustrative examples. -A large number of multiple choice questions with answers are given. ?RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations In S.I Units For Degree, Diploma and A.I.M.E. (India) Students and Practicing Civil Engineers ?ABOUT THE AUTHOR: Professor T.D. Ahuja (Director) Institute of Engineering and Rural Technology, Allahabad ?PUBLISHED BY: STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail Office : 1705-A Nai Sarak Delhi-110006 011 23265506 Website: www.standardbookhouse.com A venture of Rajsons Group of Companies Using a systems perspective, this updated version concentrates on the planning, scheduling and control factors of a project needed to bring it in on time and on or under cost. This edition contains expanded coverage of computer simulation and applications, information management and expert systems in project management. Includes a new chapter on Total Quality Management. The ultimate behind-the-curtain look at the hedge fund industry, unlocking the most valuable stories, secrets, and lessons directly from those who have played the game best. Written by Maneet Ahuja, the hedge fund industry insider, The Alpha Masters brings the secretive world of hedge funds into the light of day for the first time. As the authority that the biggest names in the business, including John Paulson, David Tepper, and Bill Ackman, go to before breaking major news, Ahuja has access to the innermost workings of the hedge fund industry. For the first time, in Alpha Masters, Ahuja provides both institutional and savvy private investors with tangible, analytical insight into the

psychology of the trade, the strategies and investment criteria serious money managers use to determine and evaluate their positions, and special guidance on how the reader can replicate this success themselves. There are few people with access to the inner chambers of the hedge fund industry, and as a result it remains practically uncharted financial territory. Alpha Masters changes all that, shedding light on star fund managers and how exactly they consistently outperform the market. The book: Contains easy-to-follow chapters that are broken down by strategy--Long/Short, Event Arbitrage, Value, Macro, Distressed, Quantitative, Commodities, Activist, pure Short, Fund of Funds. Includes insights from the biggest names in the trading game, including Ray Dalio, Marc Lasry, Jim Chanos, Sonia Gardner, Pierre Lagrange, and Tim Wong. Features contributions from industry icon Mohamed El-Erian Many of the subjects profiled in this groundbreaking new book have never spoken so candidly about their field, providing extremely provocative, newsworthy analysis of today's investing landscape. This major reference work provides a rich source of methods for analyzing water to assure its safety from natural and deliberate contaminants, including those that are added because of carelessness of human endeavors. Human development has great impact on water quality, and new contaminants are emerging every day. The issues of sampling for water analysis, regulatory considerations, and forensics in water quality and purity investigations are covered in detail. Microbial as well as chemical contaminations from inorganic compounds, radionuclides, volatile and semivolatle compounds, disinfectants, herbicides, and pharmaceuticals, including endocrine disruptors, are treated extensively. Researchers must be aware of all sources of contamination and know how to prescribe techniques for removing them from our water supply. Unlike other works published to date that concentrate on issues of water supply, water resource management, hydrology, and water use by industry, this work is more tightly focused on the monitoring and improvement of the quality of existing water supplies and the recovery of wastewater via new and standard separation techniques Using analytical chemistry methods, offers remediation advice on pollutants and contaminants in addition to providing the critical identification perspective The players in the global boom of water purification are numerous and varied. Having worked extensively in academia and industry, the Editor-in-Chief has been careful about constructing a work for a shared audience and cause This highly illustrated book, complete with comprehensive clinical references and annotated images, will serve as a leading text to educate head and neck surgeons, endocrinologists, and radiologists on the basics and nuances of thyroid and parathyroid ultrasound. It emphasizes the use of ultrasound as an office-based modality by clinicians and radiologists who actively care for this special set of patients. This text uniquely combines the collaboration between a clinician/surgeon and radiologist who share their extensive experience in head and neck ultrasound. This textbook acquaints the students with the latest trends and tendencies in macroeconomics analysis and policy. It keeps in view the macroeconomic How will chemists of the future balance competing concerns of environmental stewardship and innovative, cost-effective product development? For chemists to accept the idea that environmental quality and economic prosperity can be intertwined, the concept of the food-energy-water nexus must first be integrated into underlying thought processes. Food, Energy and Water: The Chemistry Connection provides today's scientists with the background information necessary to fully understand the inextricable link between food, energy and water and how this conceptual framework should form the basis for all contemporary research and development in chemistry in particular, and the sciences in general. Presents a clear, quantitative explanation of the link between food, energy, and water Provides information not currently available in chemistry curricula or synthesized in existing resources Examines the challenges of the food-energy-water nexus from a chemistry perspective within a multi-disciplinary domain Includes the latest research on critical topics such as fracking, water use conflicts, and sustainability in food production cycles The United States Food and Drug Administration (FDA) and other regulatory bodies around the world require that impurities in drug substance and drug product levels recommended by the International Conference on Harmonisation (ICH) be isolated and characterized. Identifying process-related impurities and degradation products also helps us to understand the production of impurities and assists in defining degradation mechanisms. When this process is performed at an early stage, there is ample time to address various aspects of drug development to prevent or control the production of impurities and degradation products well before the regulatory filing and thus assure production of a high-quality drug product. This book, therefore, has been designed to meet the need for a reference text on the complex process of isolation and characterization of process-related (synthesis and formulation) impurities and degradation products to meet critical regulatory requirements. It's objective is to provide guidance on isolating and characterizing impurities of pharmaceuticals such as drug candidates, drug substances, and drug products. The book outlines impurity identification processes and will be a key resource document for impurity analysis, isolation/synthesis, and characterization. - Provides valuable information on isolation and characterization of impurities. - Gives a regulatory perspective on the subject. - Describes various considerations involved in meeting regulatory requirements. - Discusses various sources of impurities and degradation products. "In Dalit Politics, Amit Ahuja uses the Dalit case to develop a powerful new theory of the often orthogonal relationship between social and political mobilization. He argues that when a marginalized ethnic group's social mobilization precedes its electoral mobilization, the marginalized group's ethnic party will perform poorly. This is because any political inclusion won by a marginalized group's movement weakens the ethnic bloc voting required by its ethnic political party to succeed. When Dalit social movements succeed, competition for their votes increases at the local level, which in turn lowers the importance of caste for differentiating among parties. In areas where marginal groups have a tradition of successfully social mobilization, they prefer material goods over symbolic goods--which serves to divvy up party preferences within the group. Yet when Dalit social mobilization is absent or weak, other parties do not compete for them. Without competition for marginalized voters, their voting blocs are preserved. Ironically, marginalized ethnic group parties are more likely to succeed. Ahuja also analyzes the human development outcomes and finds another irony: in the social sphere, caste solidarity improves public goods provision for the marginalized group, but in the electoral sphere, the effects are negative because such parties are weak political clients. Democratically elected officials are less accountable to them. Featuring a powerful research base and a highly original thesis, Mobilizing the Marginalized promises to change how we think about democracy in the developing world"-- High pressure, or high performance, liquid chromatography (HPLC) is the method of choice for checking purity of new drug candidates, monitoring changes during scale up or revision of synthetic procedures, evaluating new formulations, and running control/assurance of the final drug product. HPLC Method Development for Pharmaceuticals provides an extensive overview of modern HPLC method development that addresses these unique concerns. Includes a review and update of the current state of the art and science of HPLC, including theory, modes of HPLC, column chemistry, retention mechanisms, chiral separations, modern instrumentation (including ultrahigh-pressure systems), and sample preparation. Emphasis has been placed on implementation in a pharmaceutical setting and on providing a practical perspective. HPLC Method Development for Pharmaceuticals is intended to be particularly useful for both novice and experienced HPLC method development chemists in the pharmaceutical industry and for managers who are seeking to update their knowledge. Covers the requirements for HPLC in a pharmaceutical setting including strategies for software and hardware validation to allow for use in a regulated laboratory Provides an overview of the pharmaceutical development process (clinical phases, chemical and pharmaceutical development activities) Discusses how HPLC is used in each phase of pharmaceutical development and how methods are developed to support activities in each phase Macroeconomics - Theory and Policy provides a comprehensive coverage of all the important theories and policies of macroeconomics. The book is an exhaustive text for understanding all the relevant concepts and current developments in the subject. It traces the relevance of Keynesian theories to the developing economies and has critically examined the post-Keynesian developments. Evaluating Water Quality to Prevent Future Disasters, volume 11 in the Separation Science and Technology series, covers various separation methods that can be used to avoid water catastrophes arising from climate change, arsenic, lead, algal bloom, fracking, microplastics, flooding, glyphosphates, triazines, GenX, and oil contamination. This book provides a valuable resource that will help the reader solve their potential water contamination problems and help them develop their own new approaches to monitor water contamination. Highlights reasons for potential water catastrophes Provides separation methods for monitoring water contamination Encourages development of new methods for monitoring water contamination A groundbreaking, evolutionary science-based exploration of the history of leadership that explains how and why some men and women evolve into good or great leaders, and some do not. We are all leaders or followers — or both. We can recognise leadership in almost every area of life: in the workplace, among friends, within families, in politics and religion. But what makes a good or bad leader, and what makes an outstanding one? Selected examines how and why leadership has evolved over tens of thousands of years, and presents a bold and compelling new "mismatch hypothesis": the slowness of evolution means that there is a mismatch between modern leadership and the kind of leadership that our Stone Age brains are still wired for. This makes for all sorts of tendencies, problems and solutions that no author has yet discussed but that affect all aspects of our lives. Full of fascinating examples drawn from a diverse range of spheres, from politics and commerce to sport and culture, Selected explains why taller political candidates usually win, why women chief executives attract such hostility, why we like it when the boss asks after our children and what prime ministers and presidents can do to improve their chances of electoral success. This is the first book of its kind — reaching into business, psychology, politics and current affairs — to explore how leadership affects us all. It also offers the first truly scientific theory of leadership: where previous books have provided anecdote, it details empirical evidence. Selected provides deep insight into our personal and professional lives at a time when the world urgently needs to acknowledge great leadership. Capillary electrophoresis (CE) is a powerful analytical technique that is widely used in research and development and in quality control of pharmaceuticals. Many reports of highly efficient separations and methods have been published over the past 15 years. CE offers several advantages over high-pressure or high-performance liquid chromatography (HPLC). These include simplicity, rapid analysis, automation, ruggedness, different mechanisms for selectivity, and low cost. Moreover, EC requires smaller sample size and yet offers higher efficiency and thus greater resolution power over HPLC. These characteristics are very attractive in research and development, even more so in pharmaceutical quality control (QC) and stability monitoring (SM) studies. This book will provide busy pharmaceutical scientists a complete yet concise reference guide for utilizing the versatility of CE in new drug development and quality control. - Provides current status and future developments in CE analysis of pharmaceuticals. - Explains how to develop and validate methods. - Includes major pharmaceutical applications including assays and impurity testing. This book covers the fundamentals of protein inactivation during bioseparation and the effect on protein processing. Bioseparation of Proteins is unique because it provides a background of the bioseparation processes, and it is the first book available to emphasize the influence of the different bioseparation processes on protein inactivation. Bioseparation of Proteins covers the extent, mechanisms of, and control of protein inactivation during these processes along with the subsequent and essential validation of these processes. The book focuses on the avoidance of protein (biologicalproduct) inactivation at each step in a bioprocess. It compares protein inactivation exhibited during the different bioseparation processes by different workers and provides a valuable framework for workers in different areas interested in bioseparations. Topics include separation and detection methods; estimates of protein inactivation and an analysis of this problem for different separation processes; strategies for avoiding inactivation; the molecular basis of surface activity and protein adsorption, process monitoring, and product validation techniques; and the economics of various bioseparation processes and quality control procedures. Key Features * Protein inactivation and other aspects

of biological stability are critical to an effective bioseparation process; This book is a detailed and critical review of the available literature in an area that is essential to the effectiveness, validation, and economics of bioseparation processes for drugs and other biological products; Conveniently assembled under one cover, the survey of the literature and resulting perspective will greatly assist engineers and chemists in designing and improving their own processes; Key features of the text include: * detailed data on biological stability under various bioseparation conditions * extensive case studies from the literature on separation processes, validation, and economics * simplified analysis of protein refolding and inactivation mechanisms * consideration of adsorption theories and the effect of heterogeneity * coverage of both classical and novel bioseparation techniques, including chromatographic procedures Separations of Water Pollutants with Nanotechnology, the latest volume in the Separation Science and Technology series, offers new solutions for remediating water pollution utilizing nanomaterials with separation methods. Current water purification methods are unsuitable, inconvenient or expensive, so there is a need for new and better processes and techniques. Nanomaterials can purify water by removing pollutants such as heavy metals, pathogens, organic compounds, inorganic compounds, pharmaceuticals, and chemicals of emerging concern. These can effectively replace membrane-based methods if the right expertise is developed—this book helps separation scientists do just that. Existing water treatment problems can be solved by applying a nanotechnology-based processes: antimicrobial nanotechnology, zero-valent iron nanoparticles, nano-adsorbents, nano-enhanced membranes, nanometal oxides, and nano photocatalysts. The current literature places emphasis on materials chemistry rather than the separation methods used for water purification. This new volume presents a collection of chapters that deal with remediation based on separation chemistry. Written by leaders in their respective fields from around the world and edited by Satinder Ahuja, a leading expert on water quality improvement Covers the environmental impact of anthropogenic nanoparticles and plant derived bionanomaterials, which are not contained in other books related to nanomaterials for water purification Illustrates key information visually wherever possible throughout the book, e.g. process diagrams in the nanomaterial synthesis and nanomembrane fabrication chapters, electron microscope images, and more

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