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Water Chemistry Water Chemistry Laboratory Manual Water Chemistry Water Chemistry, Laboratory Manual Water in Chemistry Water Chemistry Water Chemistry Chemistry for Engineers Produced Water Drinking Water Chemistry Review of Biotreatment, Water Recovery, and Brine Reduction Systems for the Pueblo Chemical Agent Destruction Pilot Plant Hazardous Wastes Toxicity Reduction Chemical Processes for Pollution Prevention and Control Clinton Power Station Unit 1, Operation Internal Corrosion of Water Distribution Systems, 2 Edition Fundamentals of Water Treatment Unit Processes Water Treatment Unit Processes Water Chemistry Adsorption by Carbons Environmental Engineering Science Tap Water as a Hydraulic Pressure Medium Encyclopedia of Iron, Steel, and Their Alloys (Online Version) Development of Red Water Control Strategies The Handbook of Groundwater Engineering Inorganic Species, Part 3 Seasonal Chlorination Practices and Impacts to Chloraminating Utilities The Civil Engineering Handbook Chemical Kinetics and Process Dynamics in Aquatic Systems Physical and Chemical Processes in the Aquatic Environment Environmental Laboratory Exercises for Instrumental Analysis and Environmental Chemistry Environmental Chemistry: Chemistry Of Major Environmental Cycles A Problem-Solving Approach to Aquatic Chemistry Trace Environmental Quantitative Analysis Sustainable Green Chemical Processes and their Allied Applications Microbiology and Chemistry for Environmental Scientists and Engineers Activated Carbon, Calcium in Water Service Chemical Processes for Environmental Engineering Aquatic Environmental Systems – an Interdisciplinary Approach for Scientists and Engineers Sample Preparation Techniques in Analytical

Chemistry

## Water Chemistry *1991-01-16*

a first level text stressing chemistry of natural and polluted water and its application to waste water treatment discusses principles of chemical kinetics dilute solution equilibria effects of temperature and ionic strength and thermodynamics in relation to water chemistry strong emphasis given to graphical procedures contains numerous example problems

## Water Chemistry Laboratory Manual *1973*

a first level text stressing chemistry of natural and polluted water and its application to waste water treatment discusses principles of chemical kinetics dilute solution equilibria effects of temperature and ionic strength and thermodynamics in relation to water chemistry strong emphasis given to graphical procedures contains numerous example problems

## Water Chemistry *1996-04-01*

it emphasizes that both equilibrium and kinetic processes are important in aquatic systems

## Water Chemistry, Laboratory Manual *1980-04-17*

science is a broad interdisciplinary subject comprising physics chemistry and biology physics deals with atomic matter and energy while biology or health sciences deals with much larger molecular systems chemistry is perhaps the most essential science as it serves as a bridge between these two fields with this in mind chemistry for engineers is a one of a kind well written book that focuses on chemistry as applicable to engineers it provides a comprehensive review of the basic branches and principles of chemistry and also discusses the applications of chemistry in fields such as cement chemistry asphalt chemistry and polymer chemistry among others readers interested in chemical engineering will find this volume invaluable as a reference book

## Water in Chemistry *2012*

fundamentals water chemistry emulsions chemical treatment

## Water Chemistry *2011-03-22*

the pueblo chemical depot pcd in colorado is one of two sites that features u s stockpile of chemical weapons that need to be destroyed the pcd features about 2 600 tons of mustard including agent the pcd also features a pilot plant the pueblo chemical agent destruction pilot plant pcapp which has been set up to destroy the agent and munition bodies using novel processes the chemical neutralization or hydrolysis of the mustard agent produces a schedule 2 compound

called thiodiglycol tdg that must be destroyed the pcapp uses a combined water recovery system wrs and brine reduction system brs to destroy tdg and make the water used in the chemical neutralization well water again since the pcapp is using a novel process the program executive officer for the assembled chemical weapons alternatives acwa program asked the national research council nrc to initiate a study to review the pcapp wrs brs that was already installed at pcapp 5 months into the study in october 2012 the nrc was asked to also review the biotreatment area bta the committee on review of biotreatment water recovery and brine reduction systems for the pueblo chemical agent destruction pilot plant was thus tasked with evaluating the operability life expectancy working quality results of biotreatment studies carried out prior to 1999 and 1999 2004 and the current design systemization approached and planned operation conditions for the biotreatment process review of biotreatment water recovery and brine reduction systems for the pueblo chemical agent destruction pilot plant is the result of the committee s investigation the report includes diagrams of the biotreatment area the brs and wrs a table of materials of construction the various recommendations made by the committee and more

## *Water Chemistry 2015*

hazardous wastes an illuminating problem solving approach to source area analysis environmental chemodynamics risk assessment and remediation in the newly revised second edition of hazardous wastes assessment and remediation a team of distinguished researchers delivers a foundational and comprehensive treatment of all aspects of hazardous waste problems the book offers two sections one on assessment and the following on remediation while exploring topics crucial to the study of environmental science and engineering at the senior or master s level this latest edition includes a new emphasis on the chemistry of emerging contaminants including perfluorinated compounds 1 4 dioxane

methyl tert butyl ether and personal care products it also offers updated data on contaminant threshold limit value reference dose slope factor reference concentration and inhalation unit risk new remediation chapters also provide many design problems incorporating economic analyses and the selection of various design alternatives approximately 200 new end of chapter problems with solutions have been added as well readers will also find a thorough introduction to hazardous wastes including discussion of pre regulatory disposal and hazardous waste legislation comprehensive discussions of common hazardous wastes including their nomenclature industrial uses and disposal histories in depth explorations of partitioning sorption and exchange at surfaces as well as volatilization extensive descriptions of the concepts of hazardous waste toxicology and quantitative toxicology perfect for senior and masters level college courses in hazardous wastes in environmental science environmental engineering civil engineering or chemical engineering programs hazardous wastes assessment and remediation will also earn a place in the libraries of professional environmental scientists and engineers

## Chemistry for Engineers *2008*

in the reauthorization of the clean water act in 1987 the u s epa specifically addressed toxics management in addition to the requirement to eliminate discharge of toxics there can be a requirement to conduct a toxicity reduction evaluation tre the scope of toxicity reduction varies from the very simple and inexpensive to the highly complex and costly this book volume three of the water quality management library provides a complete overview of toxicity reduction evaluation the book presents the testing and removal of toxicants toxicity testing procedures sampling techniques baseline collection data and source identification plus the book presents toxicity reduction methodologies including unit processes necessary for organic toxicant control using biological and physical chemical methodologies as

well as selected unit processes necessary for inorganic toxicant control

## Produced Water *2018-09*

this book examines how chemistry chemical processes and transformations are used for pollution prevention and control pollution prevention reduces or eliminates pollution at the source whereas pollution control involves destroying reducing or managing pollutants that cannot be eliminated at the source applications of environmental chemistry are further illustrated by nearly 150 figures numerous example calculations and several case studies designed to develop analytical and problem solving skills the book presents a variety of practical applications and is unique in its integration of pollution prevention and control as well as air water and solid waste management

## Drinking Water Chemistry *2020*

this comprehensive reference for engineers consultants and public administration officials is recognized as the most complete practical guide to water pipe corrosion its health effects and how to control it

## Review of Biotreatment, Water Recovery, and Brine Reduction Systems for the Pueblo Chemical Agent Destruction Pilot Plant *2013-06-17*

carefully designed to balance coverage of theoretical and practical principles fundamentals of water treatment unit

processes delineates the principles that support practice using the unit processes approach as the organizing concept the author covers principles common to any kind of water treatment for example drinking water municipal wastew

## Hazardous Wastes *2023-06-27*

the unit process approach common in the field of chemical engineering was introduced about 1962 to the field of environmental engineering an understanding of unit processes is the foundation for continued learning and for designing treatment systems the time is ripe for a new textbook that delineates the role of unit process principles in environmental engineering suitable for a two semester course water treatment unit processes physical and chemical provides the grounding in the underlying principles of each unit process that students need in order to link theory to practice bridging the gap between scientific principles and engineering practice the book covers approaches that are common to all unit processes as well as principles that characterize each unit process integrating theory into algorithms for practice professor hendricks emphasizes the fundamentals using simple explanations and avoiding models that are too complex mathematically allowing students to assimilate principles without getting sidelined by excess calculations applications of unit processes principles are illustrated by example problems in each chapter student problems are provided at the end of each chapter the solutions manual can be downloaded from the crc press site excel spreadsheets are integrated into the text as tables designated by a cd prefix certain spreadsheets illustrate the idea of scenarios that emphasize the idea that design solutions depend upon assumptions and the interactions between design variables the spreadsheets can be downloaded from the crc web site the book has been designed so that each unit process topic is self contained with sidebars and examples throughout the text each chapter has subheadings so that students can scan the pages and identify important topics with little effort problems references and a glossary are

found at the end of each chapter most chapters contain downloadable excel spreadsheets integrated into the text and appendices with additional information appendices at the end of the book provide useful reference material on various topics that support the text this design allows students at different levels to easily navigate through the book and professors to assign pertinent sections in the order they prefer the book gives your students an understanding of the broader aspects of one of the core areas of the environmental engineering curriculum and knowledge important for the design of treatment systems

## Toxicity Reduction *1996-04-30*

water chemistry provides students with the tools needed to understand the processes that control the chemical species present in waters of both natural and engineered systems after providing basic information about water and its chemical composition in environmental systems the text coverstheoretical concepts key to solving water chemistry problems water chemistry emphasizes that both equilibrium and kinetic processes are important in aquatic systems the content focuses not only on inorganic constituents but also on natural and anthropogenic organic chemicals in water this new edition of water chemistry also features updated discussions ofphotochemistry chlorine and disinfectants geochemical controls on chemical composition trace metals nutrients and oxygen quantitative equilibrium and kinetic problems related to acid base chemistry complexation solubility oxidation reduction reactions sorption and the fate and reactions of organic chemicals are solved using mathematical graphical and computational tools examples show the application of theoryand demonstrate how to solve problems using algebraic graphical and up to date computer based techniques additional web material provides advanced content

## Chemical Processes for Pollution Prevention and Control *2017-10-04*

adsorption by carbons covers the most significant aspects of adsorption by carbons attempting to fill the existing gap between the fields of adsorption and carbonaceous materials both basic and applied aspects are presented the first section of the book introduces physical adsorption and carbonaceous materials and is followed by a section concerning the fundamentals of adsorption by carbons this leads to development of a series of theoretical concepts that serve as an introduction to the following section in which adsorption is mainly envisaged as a tool to characterize the porous texture and surface chemistry of carbons particular attention is paid to some novel nanocarbons and the electrochemistry of adsorption by carbons is also addressed finally several important technological applications of gas and liquid adsorption by carbons in areas such as environmental protection and energy storage constitute the last section of the book the first book to address the interplay between carbonaceous materials and adsorption includes important environmental applications such as the removal of volatile organic compounds from polluted atmospheres covers both gas solid and liquid solid adsorption

## Clinton Power Station Unit 1, Operation *1982*

dieses lehrbuch entwickelt die grundprinzipien der umwelttechnik wasser und abwasserbehandlung luftreinhaltung und die entsorgung von gefahrstoffen werden ausgewogen dargestellt und anhand zahlreicher realitätsnaher beispiele in die praxis umgesetzt die studenten lernen wissenschaftliche erkenntnisse im ingenieurtechnischen alltag sinnvoll anzuwenden 12 00

## Internal Corrosion of Water Distribution Systems, 2 Edition *1996*

showcases the beneftis and potential advantages of water hydraulics over oil based media interweaves examples and excercises throughout the text to illustrate critical concepts with helpful appendices on abbreviations symbols conversion factors and water contaminants and glossary sections

## Fundamentals of Water Treatment Unit Processes *2016-04-19*

the first of many important works featured in crc press metals and alloys encyclopedia collection the encyclopedia of iron steel and their alloys covers all the fundamental theoretical and application related aspects of the metallurgical science engineering and technology of iron steel and their alloys this five volume set addresses topics such as extractive metallurgy powder metallurgy and processing physical metallurgy production engineering corrosion engineering thermal processing metalworking welding iron and steelmaking heat treating rolling casting hot and cold forming surface finishing and coating crystallography metallography computational metallurgy metal matrix composites intermetallics nano and micro structured metals and alloys nano and micro alloying effects special steels and mining a valuable reference for materials scientists and engineers chemists manufacturers miners researchers and students this must have encyclopedia provides extensive coverage of properties and recommended practices includes a wealth of helpful charts nomograms and figures contains cross referencing for quick and easy search each entry is written by a subject matter expert and reviewed by an international panel of renowned researchers from academia government and industry also available online this taylor francis encyclopedia is also available through online

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## Water Treatment Unit Processes *2018-10-03*

due to the increasing demand for adequate water supply caused by the augmenting global population groundwater production has acquired a new importance in many areas surface waters are not available in sufficient quantity or quality thus an increasing demand for groundwater has resulted however the residence of time of groundwater can be of the order of thousands of years while surface waters is of the order of days therefore substantially more attention is warranted for transport processes and pollution remediation in groundwater than for surface waters similarly pollution remediation problems in groundwater are generally complex this excellent timely resource covers the field of groundwater from an engineering perspective comprehensively addressing the range of subjects related to subsurface hydrology it provides a practical treatment of the flow of groundwater the transport of substances the construction of wells and well fields the production of groundwater and site characterization and remediation of groundwater pollution no other reference specializes in groundwater engineering to such a broad range of subjects its use extends to the engineer designing a well or well field the engineer designing or operating a landfill facility for municipal or hazardous wastes the hydrogeologist investigating a contaminant plume the engineer examining the remediation of a groundwater pollution problem the engineer or lawyer studying the laws and regulations related to groundwater quality the scientist analyzing the mechanics of solute transport the geohydrologist assessing the regional

modeling of aquifers the geophysicist determining the characterization of an aquifer the cartographer mapping aquifer characteristics the practitioner planning a monitoring network

## Water Chemistry *2022*

water analysis volume iii organic species is a seven chapter text that emphasizes the methods used for the determination and analysis of organic constituents in both natural and polluted waters chapters 1 and 2 deal with waste strength and waste pollution parameters of a nonspecific variety such as biochemical oxygen demand chemical oxygen demand total organic carbon spectroscopic measurements electrochemical methods and a number of other techniques that provide chemical class determinations chapter 3 provides the current methods for isolating concentrating and partitioning organic constituents from water chapter 4 examines gas chromatographic separations and analyses and capillary and packed column techniques this chapter also presents injector techniques derivatizations detector types qualitative and quantitative analyses and a representative list of applications chapter 5 discusses the principles of organic mass spectrometry mass analysis ion detection chromatography mass spectrometry tandem mass spectrometry qualitative and quantitative analysis and selected applications chapter 6 describes the principles and applications of using high performance liquid chromatography for water analyses as well as the necessary equipment the chromatographic process and practical use and optimization of the method chapter 7 covers the use of infrared spectrophotometry for analyzing for organic pollutants in water considering both theoretical aspects and practical applications of this technique

## Adsorption by Carbons *2011-10-10*

chloramines are widely used to maintain a disinfectant residual in water distribution systems but can result in nitrification this research documents the effectiveness of free chlorine for the control of nitrifying bacteria evaluates the effect of pipe materials on nitrifying bacteria and determines how dpbs change as a result of the switch to free chlorine

## Environmental Engineering Science *2000-11-20*

first published in 1995 the award winning civil engineering handbook soon became known as the field s definitive reference to retain its standing as a complete authoritative resource the editors have incorporated into this edition the many changes in techniques tools and materials that over the last seven years have found their way into civil

## *Tap Water as a Hydraulic Pressure Medium 2000-11-17*

chemical kinetics and process dynamics in aquatic systems is devoted to chemical reactions and biogeochemical processes in aquatic systems the book provides a thorough analysis of the principles mathematics and analytical tools used in chemical microbial and reactor kinetics it also presents a comprehensive up to date description of the kinetics of important chemical processes in aquatic environments aquatic photochemistry and correlation methods e g lfers and qsars to predict process rates are covered numerous examples are included and each chapter has a detailed

bibliography and problems sets the book will be an excellent text reference for professionals and students in such fields as aquatic chemistry limnology aqueous geochemistry microbial ecology marine science environmental and water resources engineering and geochemistry

## Encyclopedia of Iron, Steel, and Their Alloys (Online Version) *2016-01-06*

there is need in environmental research for a book on fresh waters including rivers and lakes compared with other books on the topic this book has a unique outline in that it follows pollution from sources to impact included in the text is the treatment of various tracers ranging from pathogens to stable isotopes of elements and providing a comprehensive discussion which is lacking in many other books on pollution control of natural waters geophysical processes are discussed emphasizing mixing of water interaction between water and the atmosphere and sedimentation processes important geochemistry processes occurring in natural waters are described as are the processes specific to nutrients organic pollutants metals and pathogens in subsequent chapters each of these chapters includes an introduction on the selected groups followed by the physicochemical properties which are the most relevant to their behavior in natural waters and the theories and models to describe their speciation transport and transformation the book also includes the most up to date information including a discussion on emerging pollutants such as brominated and phosphate flame retardants perflurochemicals and pharmaceutical and personal care products due to its importance an ecotoxicology chapter has been included featuring molecular biological methods nanoparticles and comparison of the basis of biotic ligand model with the weibull dose response model finally the last chapter briefly summarizes the regulations on ambient water quality

## Development of Red Water Control Strategies *2002*

a comprehensive set of real world environmental laboratoryexperiments this complete summary of laboratory work presents a richlydetailed set of classroom tested experiments along with backgroundinformation safety and hazard notes a list of chemicals andsolutions needed data collection sheets and blank pages forcompiling results and findings this useful resource also focuses on environmental i e dirty samples stresses critical concepts like analysis techniques anddocumentation includes water air and sediment experiments includes an interactive software package for pollutant fate andtransport modeling exercises functions as a student portfolio of documentationabilities offers instructors actual samples of student work fortroubleshooting notes on each procedure and procedures forsolutions preparation

## The Handbook of Groundwater Engineering *2010-12-12*

the environment is an invaluable resource and understanding its chemistry is essential to the continued sustainability of life on earth environmental science which builds on the foundation of chemistry seeks to remedy the present deterioration and degradation caused by humans and to create new technology that will prevent further damage this book deals comprehensively with the five essential global cycles or environspheres lithosphere minerals and energy sources atmosphere air hydrosphere water pedosphere soil and biosphere life and provides a clear overview of the crucial interaction away them it covers the chemistry of energy resources and aspects of biochemistry geochemistry and toxicological chemistry in addition to the three important areas of air water and soil in the process it links chemical principles with environmental issues with the fundamental principles presented clearly and the topics

covered in a logical sequence this book can be used as a textbook of environmental chemistry for the environmental engineering or environmental science major it can also be used as a reference book for environmental professionals a

## Inorganic Species, Part 3 *1984-10-28*

a problem solving approach to aquatic chemistry enables civil and environmental engineers to understand the theory and application of aquatic equilibrium chemistry the second edition of a problem solving approach to aquatic chemistry provides a detailed introduction to aquatic equilibrium chemistry calculation methods for systems at equilibrium applications of aquatic chemistry and chemical kinetics the text directly addresses two required abet program outcomes in environmental engineering chemistry including stoichiometry equilibrium and kinetics and material and energy balances fate and transport of substances in and between air water and soil phases the book is very student centered with each chapter beginning with an introduction and ending with a summary that reviews the chapter s main points to aid in reader comprehension important terms are defined in context and key ideas are summarized many thought provoking discussion questions worked examples and end of chapter problems are also included each part of the text begins with a case study a portion of which is addressed in each subsequent chapter illustrating the principles of that chapter in addition each chapter has an historical note exploring connections with the people and cultures connected to topics in the text a problem solving approach to aquatic chemistry includes fundamental concepts such as concentration units thermodynamic basis of equilibrium and manipulating equilibria solutions of chemical equilibrium problems including setting up the problems and algebraic graphical and computer solution techniques acid base equilibria including the concepts of acids and bases titrations and alkalinity and acidity complexation including metals ligands equilibrium calculations with complexes and applications of complexation

chemistry oxidation reduction equilibria including equilibrium calculations graphical approaches and applications gas liquid and solid liquid equilibrium with expanded coverage of the effects of global climate change other topics including chemical kinetics of aquatic systems surface chemistry and integrative case studies for advanced senior undergraduates and first year graduate students in environmental engineering courses a problem solving approach to aquatic chemistry serves as an invaluable learning resource on the topic with a variety of helpful learning elements included throughout to ensure information retention and the ability to apply covered concepts in practical settings

## Seasonal Chlorination Practices and Impacts to Chloraminating Utilities *2007-02*

trace environmental quantitative analysis principles techniques and applications second edition offers clear and relevant explanations of the principles and practice of selected analytical instrumentation involved in trace environmental quantitative analysis teqa the author updates each chapter to reflect the latest improvements in teqa that

## The Civil Engineering Handbook *2002-08-29*

urbanization industrialization and unethical agricultural practices have considerably negative effects on the environment flora fauna and the health and safety of humanity over the last decade green chemistry research has focused on discovering and utilizing safer more environmentally friendly processes to synthesize products like organic compounds inorganic compounds medicines proteins enzymes and food supplements these green processes exist in other interdisciplinary fields of science and technology like chemistry physics biology and biotechnology still the

majority of processes in these fields use and generate toxic raw materials resulting in techniques and byproducts which damage the environment green chemistry principles alternatively consider preventing waste generation altogether the atom economy using less toxic raw materials and solvents and opting for reducing environmentally damaging byproducts through energy efficiency green chemistry is therefore the most important field relating to the sustainable development of resources without harmfully impacting the environment this book provides in depth research on the use of green chemistry principles for a number of applications

## Chemical Kinetics and Process Dynamics in Aquatic Systems *2018-05-08*

biological and chemical processes play a key role in the treatment of domestic wastewater and are becoming increasingly important in tackling the problems caused by industrial wastes the first edition of this popular text focused on microbial systems and wastewater processes that are implemented in a treatment plant while maintaining this approac

## *Physical and Chemical Processes in the Aquatic Environment 2014-09-15*

this book deals with basic principles such as chemical equilibrium as well as chemical processes these concepts make up the basic tools necessary to design a more efficient system to solve environmental problems this book can be used as a textbook for a university level course it can also serve as an excellent source for professional research in the field of environmental engineering or environmental science

## Environmental Laboratory Exercises for Instrumental Analysis and Environmental Chemistry *2004-11-26*

considering that environmental science draws students and practitioners with widely varied backgrounds there is a need for materials that help readers to grow their knowledge of fundamental principles from chemistry physics and biology to understand describe and predict the ways in which constituents sediment nutrients organic matter etc interact and move in aquatic systems rivers lakes groundwater and the atmosphere aquatic environmental systems an interdisciplinary approach for scientists and engineers focuses on developing a common vocabulary and a rigorous material balance based approach to understanding these movements and interactions it examines the key properties of water and the ways they impact the behavior of water in the environment providing a focused enumeration of those aspects of water structure that have direct and profound impacts on aquatic environmental systems features provides open ended exercises to allow students to tailor work to their personal local regional interests focuses on conveying understanding of the underlying principles and assumptions limitations which are frequently underemphasized or overlooked entirely in other books deemphasizes straight memorization while focusing on methods that can be applied to more broad based problem solving accommodates a wide range of mathematics skills and backgrounds

## Environmental Chemistry: Chemistry Of Major Environmental Cycles

2005-07-08

the importance of accurate sample preparation techniques cannot be overstated meticulous sample preparation is essential often overlooked it is the midway point where the analytes from the sample matrix are transformed so they are suitable for analysis even the best analytical techniques cannot rectify problems generated by sloppy sample pretreatment devoted entirely to teaching and reinforcing these necessary pretreatment steps sample preparation techniques in analytical chemistry addresses diverse aspects of this important measurement step these include state of the art extraction techniques for organic and inorganic analytes sample preparation in biological measurements sample pretreatment in microscopy surface enhancement as a sample preparation tool in raman and ir spectroscopy sample concentration and clean up methods quality control steps designed to serve as a text in an undergraduate or graduate level curriculum sample preparation techniques in analytical chemistry also provides an invaluable reference tool for analytical chemists in the chemical biological pharmaceutical environmental and materials sciences

## A Problem-Solving Approach to Aquatic Chemistry *2022-12-20*

## Trace Environmental Quantitative Analysis *2005-08-29*

Sustainable Green Chemical Processes and their Allied Applications *2020-05-30*

*Microbiology and Chemistry for Environmental Scientists and Engineers 2018-01-24*

*Activated Carbon, Calcium in Water Service 1998*

*Chemical Processes for Environmental Engineering 2007*

Aquatic Environmental Systems – an Interdisciplinary Approach for Scientists and Engineers *2023-12-04*

# Sample Preparation Techniques in Analytical Chemistry *2004-04-07*

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