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advanced separations by specialized sorbents opens a new window into sorbent materials presenting fundamental principles for their syntheses and adsorption properties the book presents advanced techniques used to create specialized sorbents with a wide range of functions that can be used to enhance the separation and or purification of useful bio

handbook of water pollution handbook of water pollution discusses a wide range of contaminants heavily affecting our environment and water bodies the chapters discuss heavy metals metalloids pesticides explosives toxic chemicals dyes plastics e wastes fertilizers detergents nitrates nitrites phosphates hydrocarbons and fecal wastes along with their sources of action against our

environment their methods of analysis and finally their treatments are all presented in detail our environment is heavily affected due to extreme human activities environmental pollution is a major concern worldwide within this water pollution is one of the major challenges that puts the total ecology at risk water pollution is alarming everywhere many governing authorities believe it is also an unavoidable result of human activity however the economic cost of water pollution far outweighs the benefits of skimping on its cause water pollution is not just merely related to financial cost but related to all living beings toxic waste is getting into the water bodies in various regions causing many illnesses in humans and poisoning other living things the destruction of any single component of our ecosystem can have a devastating effect on our biodiversity therefore it is necessary to understand the causes of pollution their nature and mechanism and at the same time study the remedies the major causes of water pollution are industrial waste sewage plastics oil leakage biological organisms toxic chemicals and radioactive waste and so on a tremendous amount of research work is going on around the world to understand the causes their mechanism and solutions many new works are published every day therefore it s important to gather some of the most relevant findings in one place this will serve as a link between collected knowledge and current advancements while also facilitating future thinking

time of flight mass spectrometry identifies the elements of a compound by subjecting a sample of ions to a strong electrical field illuminating emerging analytical techniques in high resolution mass spectrometry liquid chromatography time of flight mass spectrometry shows readers how to analyze unknown and emerging contaminants such as antibiotics steroids analgesics using advanced mass spectrometry techniques the text combines theoretical discussion with concrete examples making it suitable for analytical chemists environmental chemists organic chemists medicinal chemists university research chemists and graduate and post doctorate students

gas chromatography mass spectrometry gc ms has been the technique of choice of analytical scientists for many years the latest developments in instrumentation including tandem mass spectrometry ms ms and time of flight tof detectors have opened up and broadened the scope of environmental analytical chemistry this book summarizes the major advances and relevant applications of gc ms techniques over the last 10 years with chapters by leading authors in the field of environmental chemistry the authors are drawn from academia industry and government the book is organized in three main parts part i covers applications of basic gc ms to solve environmental related problems part ii focuses on gc ms ms instrumentation for the analyses of a broad range of analysis in environmental samples pesticides persistent organic pollutants endocrine disruptors etc part iii covers the use of more advanced gc ms techniques using low and high resolution mass spectrometry for many applications related to the environment food and industry

defines the strategy for complex analytical problem solving and provides the latest information on sample handling extractive polymer additive analysis chromatographic spectroscopic and mass spectrometric methods

presents information on the biographies of recognized pioneers and innovators in the field of mass spectrometry highlights over 120 innovators in mass spectrometry including several nobel prize winners discusses instrumentation and their uses also providing interesting information on the careers characters and life stories of the people who did the work offers unique insight into the careers and personalities of luminaries in the field

combined liquid chromatography mass spectrometry has a long history of promises and breakthroughs many interfaces have been developed and commercialized over the past 25 years most of these have subsequently disappeared again because of apparent problems e g moving belt direct liquid introduction and thermospray in the past few years a real breakthrough has been made and years of promises are redeemed interfaces applied in combination with atmospheric pressure chemical ionization have changed Ic ms especially with respect to ease of operation robustness detection limits and applicability ranges Ic ms and related techniques have entered routine laboratories within pharmaceutical industries and related contract research institutes laboratories concerned with biochemistry biotechnology environmental analysis natural product research and many other areas furthermore other mass analysers than linear triple quadrupole instruments have found extensive use from this perspective the editors have invited authors both from fundamental innovative instrumental and application oriented research groups to contribute papers to this special issue on current practice of Ic ms all of these papers both review and research contributions were peer reviewed in the usual way the result is a clear perspective on the current practice of Ic ms as well as on new instrumental developments taking place

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