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*Isotopic Assessment of
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with the use of isotopic tracing to study the reaction mechanisms involved in heterogeneous catalysis. It presents special methods for using isotopic and radioactive atomic species for obtaining meaningful kinetic data that can be quantitatively used in

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mechanistic modeling. It also considers a number of industrial reactions under steady-state reaction conditions in which superposed tracer transfer is also at steady state. This book is comprised of eight chapters and begins with an introduction to

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heterogeneous catalysis and an approach to reaction modeling, as well as the experimental reactors for obtaining the type of measurements and data needed in transient modeling. The application of isotopes in studies of heterogeneous catalysis is also

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discussed. Subsequent chapters focus on the choice of intermediates and reaction steps in tracer experiments; the number of overall stoichiometric chemical reactions that can occur in order to generate product molecules from reactants;

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superposition modeling of mechanisms; and steady-state tracing. Transient tracing and the development of rate equations are also described. This monograph is intended primarily for students and teachers of such subjects as physical chemistry, as

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**January 2012 saw the
completion of the U.S. Army's
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(CMA's) task to destroy 90 percent of the nation's stockpile of chemical weapons. CMA completed destruction of the chemical agents and associated weapons deployed overseas, which were transported to

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Johnston Atoll, southwest of Hawaii, and demilitarized there. The remaining 10 percent of the nation's chemical weapons stockpile is stored at two continental U.S. depots, in Lexington, Kentucky, and

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Pueblo, Colorado. Their destruction has been assigned to a separate U.S. Army organization, the Assembled Chemical Weapons Alternatives (ACWA) Element. ACWA is currently constructing the last

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two chemical weapons disposal facilities, the Pueblo and Blue Grass Chemical Agent Destruction Pilot Plants (denoted PCAPP and BGCAPP), with weapons destruction activities scheduled to start in

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**2015 and 2020, respectively.
ACWA is charged with
destroying the mustard agent
stockpile at Pueblo and the
nerve and mustard agent
stockpile at Blue Grass without
using the multiple incinerators**

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and furnaces used at the five CMA demilitarization plants that dealt with assembled chemical weapons - munitions containing both chemical agents and explosive/propulsive components. The two ACWA

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demilitarization facilities are congressionally mandated to employ noncombustion-based chemical neutralization processes to destroy chemical agents. In order to safely operate its disposal plants, CMA

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developed methods and procedures to monitor chemical agent contamination of both secondary waste materials and plant structural components. ACWA currently plans to adopt these methods and procedures

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for use at these facilities. The Assessment of Agent Monitoring Strategies for the Blue Grass and Pueblo Chemical Agent Destruction Pilot Plants report also develops and describes a half-dozen scenarios involving

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prospective ACWA secondary waste characterization, process equipment maintenance and changeover activities, and closure agent decontamination challenges, where direct, real-time agent contamination

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measurements on surfaces or in porous bulk materials might allow more efficient and possibly safer operations if suitable analytical technology is available and affordable.

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contemporary analytical chemistry does not consume resources optimally. Indeed, the usage of toxic chemical compounds is at the highest rate ever. All this makes the emerging field of green

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chemistry a “hot topic” in industrial, governmental laboratories as well as in academia. This book starts by introducing the twelve principles of green chemistry. It then goes on to

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discuss how the principles of green chemistry can be used to assess the 'greenness' of analytical methodologies.

The 'green profile' proposed by the ACS Green Chemistry Institute is also presented. A

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chapter on “Greening”
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describes approaches to
minimizing toxic solvent use,
using non-toxic alternatives,
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chapter on instrumental

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methods describes existing analytical approaches that are inherently green and making non-green methods greener. The final chapter on signal acquisition describes how quantitative

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structure-property relationship (QSPR) ideas could reduce experimental work thus making analysis greener. The book concludes with a discussion of how green chemistry is both

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possible and necessary.
Green Analytical Chemistry
is aimed at managers of
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understanding of the science and policy, procedure and practice that underpins the REACH risk assessments required for the use and placing on the market of chemicals in the European Union. A clear understanding

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of information provision and how this affects the assessment of chemical safety is fundamentally important to the success of policy on chemicals and ultimately to the sustainability of the

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chemicals industry. Within the book, the scientific processes that underpin the policy are explained in a practical way. Importantly, it includes coverage of techniques to help solve the problems of using

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potentially risky and hazardous chemicals through the use of less hazardous alternatives and 'green chemistry', and also the analysis of the risks of the use of the most hazardous substances against the

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social and economic benefits of use. Chemical Risk Assessment: A Manual for REACH covers the following main themes: i) Assessment of chemical risk; ii) Risk management; iii) Hazard reduction, substitution and

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