

The authors are associated with the University of Pecs, Hungary. This book is the fourth one published by the first author and the second published by the second author; all these texts deal with sampling and analysis of environmental metals. Although these authors are foreign based, the book, from the perspective of laws and regulation-based analytical procedures, is written to address US laws, standards, and procedures.

The book has 19 chapters, 12 short appendices, and a very brief list of references. The key chapters are entitled:

- Introduction to Metals;
- Discussion of Metallic Elements;
- Toxicity of Metals;
- Standards Related to Metallic Pollutants;
- Fundamentals of Spectroscopy;
- Molecular Spectrophotometry;
- Atomic Absorption Spectrometry;
- Direct Aspiration or Flame Atomic Absorption Spectrometry;
- Graphite Furnace Atomic Absorption Spectrometry;
- Cold-Vapor Atomic Absorption Spectrometry;
- Hydride-Generation Atomic Absorption Spectrometry;
- Inductively Coupled Plasma Atomic Emission Spectroscopy;
- Quality Control in Metals Analysis;
- Sample Collection for Metals Analysis;
- Sample Preparation for Metals Analysis;
- Converting Raw Data into Reportable Form;
- Reporting Analytical Data;
- Selected Methods for Determination of Metals in Environmental Samples;
- Laboratory Safety Rules.

The book details the methods utilized by the chemist for metallic ion analysis. However, one can see from the outline of the chapter titles that the authors have discussed metal toxicity, sample preparation, data reporting, and laboratory safety.

As advertised, the book is “. . . a comprehensive and easy-to-read text for laboratory technicians and analytic chemists who need a guide for analyzing metals in environmental samples and a reference for analytical and quality control procedures.”

Gary F. Bennett

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Environmental Analysis of Contaminated Sites

G.I. Sunahara, A.Y. Renoux, C. Thellen, C.L. Gaudet, A. Pilon (Eds.), John Wiley & Sons Ltd., New York, NY, 2002, US\$ 115.00, 488 pp., ISBN 0-471-98669-0

This book evolved from a workshop entitled “Toxicity Testing Applied to Soil Ecotoxicity”. The 1995 workshop was held in Montreal, Que., Canada, under the auspices of the National

Research Council of Canada and the Quebec Ministry of the Environment. “The overall objective of this workshop was to give an overview of ecotoxicity testing applied to contaminated site management and to update the needs of management relative to contaminated sites.”

The editors have published 21 papers from this workshop. The papers are divided into three major groups (each group was supplied with an introduction by one of the editors):

- *Part I: Ecotoxicity Tools and Novel Approaches*
- *Part II: Risk Assessment Approaches for Contaminated Sites*
- *Part III: Case Studies Showing Applications of Toxicological and Ecotoxicological Risk Methods to Contaminated Sites and Remediation Technologies Management*

“Part I of this book emphasized the many laboratory and field ecotoxicity tools that are now available to study contaminated sites and the potential effects on receptors.”

“Part II of this book introduces the central issues and approaches in assessing risk at contaminated sites, from the use of generic soil guideline values to site-specific ecological risk assessment.”

“Part III has six case studies that show the potential use of the risk assessment process and how risk assessment leads to new options for site restoration.”

I fully agree with the comments made by the editors of the Wiley “Ecological and Environmental Toxicology Series” that sponsored this book: “This is a book that everyone involved in development of contaminated sites should read. The editors of this informative and comprehensive book have managed to bring within one cover, details of the scientific tools and approaches for contaminated site assessment, including a host of effects-based methodologies. This book has been written as a reference source. This book provides an overview of the diversity of interrelated issues that one needs to understand in order to address the concerns and issues pertaining to contaminated sites. Furthermore, the text is exemplified using case study examples to unravel the complexity and interwoven nature of the subject area.”

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Abstracts of Remediation Case Studies—Volume 6

Prepared by the member agencies of the Federal Remediation Technologies Roundtable, U.S. EPA, Washington, DC, July 2002, Free, 125 pp., 8.50 × 11 format, catalog number: EPA-542-R-95-001

This report is the sixth in a series of volumes on remediation technologies produced by U.S. governmental agencies that include: U.S. EPA, DOE, DOD, DOI, Departments of the Navy, Air Force and Army, and NASA. The case study reports and abstracts in this and previous volumes are organized by technology and cover a wide variety of in situ and ex situ treatment technologies as well as some containment remedies.

The case studies contain, where available, cost and performance data for full-scale remediation efforts as well as the results of large-scale demonstration programs. Contaminants addresses include: chlorinated solvents, petroleum hydrocarbons and benzene, toluene,