



Environmental Instrumentation and Analysis Handbook

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A comprehensive resource for information about different technologies and methods to measure and analyze contamination of air, water, and soil.

- * Serves as a technical reference in the field of environmental science and engineering
- * Includes information on instrumentation used for measurement and control of effluents and emissions from industrial facilities that can directly influence the environment
- * Focuses on applications, making it a practical reference tool



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Editorial Review

Review

"This handbook has many valuable features and provides a wealth of information for the professional...should have wide appeal." (*Environmental Practice*, June 2006)

"...a comprehensive catalog of the benefits and drawbacks of virtually every available tool and technique." (*Journal of the American Water Resources Association*, April 2005)

"...should greatly simplify the decision making process when selecting the proper monitoring method or instrument." (*E-STREAMS*, April 2005)

"Each chapter gives a detailed description of the instrument and methodology at hand, which is supported by valuable case studies and enriched by discussions of common pitfalls and how to avoid them." (*Journal of the American Chemical Society*, March 31, 2005)

"...an excellent guide to the variety of the techniques used for environmental monitoring and analysis." (*Analytical and Bioanalytical Chemistry*, February 2007)

From the Back Cover

A fact-based, unbiased directory of tools and techniques for analyzing contamination in air, water, and soil

Environmental science professionals can now choose from an impressive array of instrumentation and methodologies when analyzing field conditions at potential contamination sites. This wealth of choices, however, can become a burden when practitioners must determine which approach will be the most optimal and accurate for measuring a particular site.

Environmental Instrumentation and Analysis Handbook is the first book to comprehensively catalog the benefits and drawbacks of virtually every available tool and technique. More than three dozen veteran environmental professionals describe the basic science that supports their field analyses, and then provide invaluable firsthand case studies and reports regarding:

- Equipment and methodologies at use in the field
- Applicability of a particular instrument in an analytical technique
- What can go wrong and why—and how to avoid it

Since the beginning of environmental science, the primary information resources for obtaining field data have been obscure journal articles, manufacturer's catalogs, sales personnel, and personal experience. Environmental Instrumentation and Analysis Handbook combines all of the pertinent data into one innovative resource, providing new help for field professionals who need to understand which instruments and procedures have worked best under certain conditions, and how to successfully implement them.

About the Author

RANDY D. DOWN, PE, is a recognized expert in environmental instrumentation and controls with Forensic Analysis and Engineering Corp. His more than thirty years of instrumentation and controls experience covers

a wide range of industries and applications.

JAY H. LEHR, PHD, is the Science Director of The Heartland Institute and Senior Scientist at Bennett & Williams, Inc. He is the author of fourteen books and over 500 articles on environmental science.

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Irene Justice:

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