An integrated approach to understanding the principles of sampling, chemical analysis, and instrumentation

This unique reference focuses on the overall framework and why various methodologies are used in environmental sampling and analysis. An understanding of the underlying theories and principles empowers environmental professionals to select and adapt the proper sampling and analytical protocols for specific contaminants as well as for specific project applications. Covering both field sampling and laboratory analysis, *Fundamentals of Environmental Sampling and Analysis* includes:

- A review of the basic analytical and organic chemistry, statistics, hydrogeology, and environmental regulations relevant to sampling and analysis

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With real-life case studies that illustrate the principles plus problems and questions at the end of each chapter to solidify understanding, this is a practical, hands-on reference for practitioners and a great textbook for upper-level undergraduates and graduate students in environmental science and engineering.

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About the Author

Chunlong (Carl) Zhang, PhD, is an Associate Professor of Environmental Science and Environmental Chemistry at the University of Houston-Clear Lake. He has over two decades of experience in academia, industry, and consulting. Dr. Zhang has firsthand, practical knowledge of environmental sampling and analysis from work in the field and in the lab. He is the author or coauthor of numerous articles and reports on contaminant fate/transport, environmental remediation, and environmental assessment.

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