

Analytical Methods For Environmental Contaminants Of Emerging Concern



Analytical Methods for Environmental Contaminants of Emerging Concern by Avrel Seale

★★★★☆ 4.2 out of 5

Language : English
File size : 3529 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 417 pages
Lending : Enabled
X-Ray for textbooks : Enabled



The environmental landscape is constantly evolving, with the emergence of new contaminants that pose significant risks to human health and ecosystem integrity. These emerging environmental contaminants (EECs) are often difficult to detect and quantify due to their unique properties and low concentrations in environmental matrices.

This comprehensive book provides a detailed overview of the analytical methods used in the detection and quantification of EECs. Written by leading experts in the field, this authoritative resource covers a wide range of analytical techniques, from traditional methods to cutting-edge technologies.

Key Features

- **Comprehensive coverage:** Examines a wide range of analytical methods for EECs, including sampling, extraction, separation, and detection techniques.
- **Practical guidance:** Provides step-by-step instructions and detailed protocols for each method, enabling readers to implement the techniques effectively.
- **Multidisciplinary approach:** Combines expertise from analytical chemistry, environmental science, and toxicology to provide a holistic understanding of EEC analysis.
- **Real-world case studies:** Includes case studies showcasing the application of analytical methods in real-world environmental monitoring and remediation projects.

Content Highlights

Chapter 1: to Emerging Environmental Contaminants

- Definition and classification of EECs
- Environmental sources and pathways of EECs
- Toxicological effects and risks associated with EECs

Chapter 2: Sampling and Sample Preparation Techniques

- Sampling strategies and equipment for water, air, soil, and biota
- Sample preservation and storage techniques
- Extraction and preconcentration methods

Chapter 3: Separation Techniques

- Chromatography techniques: GC, HPLC, LC-MS/MS
- Electrophoresis
- Capillary electrophoresis

Chapter 4: Detection and Quantification Methods

- Mass spectrometry
- Spectrometry
- Immunochemical methods
- Biosensors

Chapter 5: Quality Assurance and Quality Control

- Calibration procedures
- Data validation
- Method validation

Chapter 6: Case Studies in Environmental Monitoring and Remediation

- EEC analysis in water bodies
- Air quality monitoring for EECs
- Soil remediation strategies for EECs

Target Audience

This book is an essential resource for:

- Researchers in environmental chemistry and toxicology
- Environmental monitoring specialists
- Regulatory agencies
- Environmental consultants
- Students in environmental science and engineering

Free Download Your Copy Today

Gain access to the latest analytical methods and techniques for the detection and quantification of emerging environmental contaminants. Free Download your copy of *Analytical Methods For Environmental Contaminants Of Emerging Concern* today and empower yourself with the knowledge you need to protect our planet.

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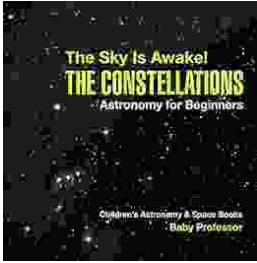


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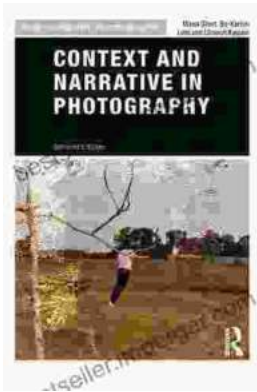
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