

## Controlled Drug Analysis

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### Synopsis

This book is the first of its kind to bring together a number of controlled substances. Aimed at undergraduate and postgraduate programmes, it includes methods for drug analysis and control, biologically based, comparative and numerical techniques, methods for drug sample comparison and the appropriate statistical techniques, which have been applied to drug analysis. It also considers analytical methods that have been affected by legislative changes. It is aimed at academics delivering forensic science, but it could also be used by chemistry, biochemistry, criminology and law and policing students on MSc forensic science postgraduate research candidates.

### Key Features

- Explains the methods used for the analysis of psychoactive substances (NPS). Explains the methods used and how they work.

- Incorporates a systematic treatment of numerical methods for comparison, including a review of methods used for different types of examination of the appropriateness of those methods and how to understand whether their proposed numerical method is appropriate.
- Presents a modern treatment of the legislative framework for drug analysis allowing the reader to make decisions on whether methodologies satisfy these criteria.

### Brief Contents

- 12.5 chapters

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## Functional Foods of the Future

**Vijai Kumar Gupta** SRUC, University of Edinburgh, UK

**Minaxi Sharma** CARAH ASBL, Belgium

**Smriti Gaur** Jaypee Institute of Information Technology, India

**Ramesh Chander Kuhad** Shree Guru Gobind Singh Tricentenary University,  
India

### Synopsis

Edited and authored by well-known and internationally spread contributors, this book focuses on the impact that aspects of bioproduction, biochemistry and food processing can have on properties of future functional foods. Relevant information regarding the health impacts of using functional foods is also provided. The book fills a gap by

## Resources Management

### Global Perspectives and Initiatives

Terry Tudor SusConnect Ltd, UK

#### Synopsis

The management of natural resources plays a vital role in the socio-economic development of all countries. However, the environment, and its ecosystems and resources, are being increasingly threatened through over-exploitation, mismanagement, and pollution in the search for economically important raw materials and for sustenance. Taking a sectoral, national, and global view of the management of resources, this book will appeal to a broad range of stakeholders. It is essential reading for anyone working in resource management, sustainability, development, and policy.

#### Brief Contents

- Introduction
- An Overview of International Natural Resources Policies and Laws
- Sustainable Consumption and Production: Perspectives from India
- Testing and Monitoring for Spontaneous Combustion and Explosion Hazards in the Australian Coal Mining Industry
- Challenges at the Intersection of Mineral Resource Sector, Circular Economy, and Economic Development
- A Multi-stakeholder Policy Perspective of the EU Critical Raw Materials Act: The Case of Lithium Mining
- Applied Smouldering Combustion for Supporting a Circular Economy
- Effecting Behaviour Change with Collaborative Education – Comparative Analysis from Colorado Case Studies
- Sustainable Finance Policy Path Towards Decarbonisation in Latin America and the Caribbean
- Concluding Remarks

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## Atomic Spectrometric Methods of Analysis

Andrew Fisher University of Plymouth, UK

### Synopsis

Atomic spectrometry techniques are used to determine the metallic elements, as well as metalloids and non-metals. This book provides methods of sample collection, sample preparation and analytical methodology for the atomic spectrometric analysis of samples. Pitfalls, common errors and useful hints and tips will be explored. In addition to the instrumental techniques themselves, the sections on sample collection and sample preparation methods are very useful for those practising or revising the techniques. It provides a valuable source of theoretical and practical information for those who are new to the techniques or working in laboratories with little access to in-house expertise. It is an accessible reference which can be read in parts or as a whole and is written to appeal to researchers, industrial scientists and technicians working in this field.

All information is subject to change without notice

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Guides for Laboratory-based

Chemists Volume 1

### Key Features and Highlights

- Provides methods of sample collection, sample preparation and the analytical methodology required for the use of atomic spectrometric methods in analysis.
- Pitfalls, common errors and useful hint and tips are included to aid the use of this technique.
- Relevant and appealing to all levels of users in the field.

### Brief Contents

- Sample Collection Methods
- Sampling Preparation Methods
- X-ray Fluorescence Spectrometry
- Atomic Absorption Spectrometry (AAS)
- Inductively Coupled Plasma Optical Emission Spectrometry (ICP OES)
- Inductively Coupled Plasma Mass Spectrometry (ICP MS)
- Laser Induced Breakdown Spectrometry
- Vapour Generation and Atomic Fluorescence Spectrometry (AFS)
- Which Technique to Use?

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