



Handbook of Instrumental Techniques for Analytical Chemistry

By Frank A. Settle

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This book/disk Handbook provides introductory information about the most widely used instrumental techniques and methods used in analytical chemistry and helps the reader determine which technique is most appropriate for their needs. This book/disk Handbook consists of an introduction and seven sections, each addressing a major area of chemical analysis (separation techniques, optical spectroscopic techniques-qualitative, optical spectroscopic techniques-quantitative, mass spectrometry, electrochemical techniques, microscopic and surface techniques, polymer and macromolecular techniques) and a floppy disk containing Technique Selection software. Each section consists of chapters describing the most commonly used instrumental techniques in the area of analysis. Each chapter presents basic information about a specific technique. The common format used for each chapter facilitates selection and comparison of techniques. Each chapter contains the following topics: 1) a summary page, 2) how it works, 3) what it does including current applications, 4) types of samples analyzed, practical economic information, 5) summary of the routine operational characteristics, and 6) references to more detailed information on the technique.

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Editorial Review

From the Publisher

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From the Back Cover

Chemical Analysis is not just for analytical chemists!

Scientists, engineers, and technicians in a variety of fields often need information from chemical analyses in their work. Many professional chemists also require information from techniques outside their area of specialization.

With this handbook, these users can find information about the most common analytical chemical techniques in an understandable form, simplifying decisions about which analytical techniques can provide the information they are seeking on chemical composition and structure.

Compiled by experts in each specialty, the handbook uses a standardized format to facilitate the comparison of techniques. Each chapter features:

- * A quick-look summary
- * How the technique works
- * What information the technique can provide and how it's used
- * Economic considerations
- * Routine operational characteristics
- * Reference sources for more detailed study
- * A comprehensive glossary defines technical terms and acronyms.

The handbook covers widely used techniques in the areas:

- * Electromagnetic spectrometry
- * Separation techniques
- * Mass spectrometry
- * Electrochemistry

- * Microscopy and surface techniques
- * Polymers and macromolecules

A general introductory section addresses issues associated with:

- * The process of obtaining chemical information from samples
- * Preparation of organic and inorganic samples
- * Assessing the quality of measurements
- * Laboratory automation
- * Laboratory information systems

Persons in areas such as biotechnology, materials science, environmental science, and geology will find the Handbook provides an understandable overview and useful introduction to techniques that can provide information to solve problems. The Handbook's wide range and standardized format make it the ideal reference work for anyone who uses chemical analyses in their work.

The enclosed Technique Selection Program can be used in two ways. In the first mode, users follow a series of menus to describe both the characteristics of their samples and the information they desire from the sample. They then receive a reference to appropriate analysis techniques described in the text. In the second mode, they can select from a listing of the techniques discussed in the book to obtain quick information about each method's applicability, including the characteristics of samples it can analyze, and the types of information the analysis provides.

Users Review

From reader reviews:

Angela Powers:

People live in this new day time of lifestyle always make an effort to and must have the extra time or they will get lot of stress from both daily life and work. So , if we ask do people have time, we will say absolutely sure. People is human not really a robot. Then we inquire again, what kind of activity have you got when the spare time coming to you actually of course your answer may unlimited right. Then ever try this one, reading books. It can be your alternative with spending your spare time, the book you have read is actually Handbook of Instrumental Techniques for Analytical Chemistry.

Christopher Jones:

Reading can called imagination hangout, why? Because while you are reading a book specifically book entitled Handbook of Instrumental Techniques for Analytical Chemistry your thoughts will drift away trough every dimension, wandering in each aspect that maybe not known for but surely might be your mind friends. Imaging each and every word written in a book then become one contact form conclusion and explanation which maybe you never get ahead of. The Handbook of Instrumental Techniques for Analytical Chemistry giving you another experience more than blown away the mind but also giving you useful information for your better life with this era. So now let us show you the relaxing pattern the following is your body and mind is going to be pleased when you are finished reading through it, like winning a casino game. Do you want to try this extraordinary spending spare time activity?

Elizabeth Talbot:

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Donald Oakes:

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