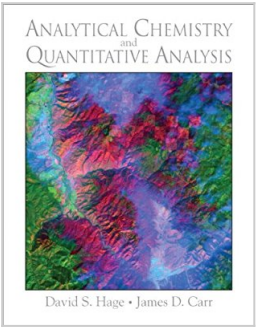

Analytical Chemistry and Quantitative Analysis

By David S. Hage, James R. Carr

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Analytical Chemistry and Quantitative Analysis presents concepts and procedures in a manner that reflects the practice and applications of these methods in today's analytical laboratories. These methods are illustrated by using current examples from fields that include forensics, environmental analysis, medicine, biotechnology, food science, pharmaceutical science, materials analysis, and basic research. The fundamental principles of laboratory techniques for chemical analysis are introduced, along with issues to consider in the appropriate selection and use of these methods—including the proper use and maintenance of balances, laboratory glassware, and notebooks, as well as mathematical tools for the evaluation and comparison of experimental results.

Basic topics in chemical equilibria are reviewed and used to help demonstrate the principles and proper use of classical methods of analysis like gravimetry and titrations. Common instrumental techniques are also introduced, such as spectroscopy, chromatography and electrochemical methods. Sideboxes discuss other methods, including mass spectrometry and NMR spectroscopy, throughout the text.

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Analytical Chemistry and Quantitative Analysis By David S. Hage, James R. Carr Bibliography

- Sales Rank: #512156 in Books
- Published on: 2010-02-19
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x 1.30" w x 8.60" l, 3.70 pounds
- Binding: Hardcover
- 720 pages

Editorial Review

From the Back Cover
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