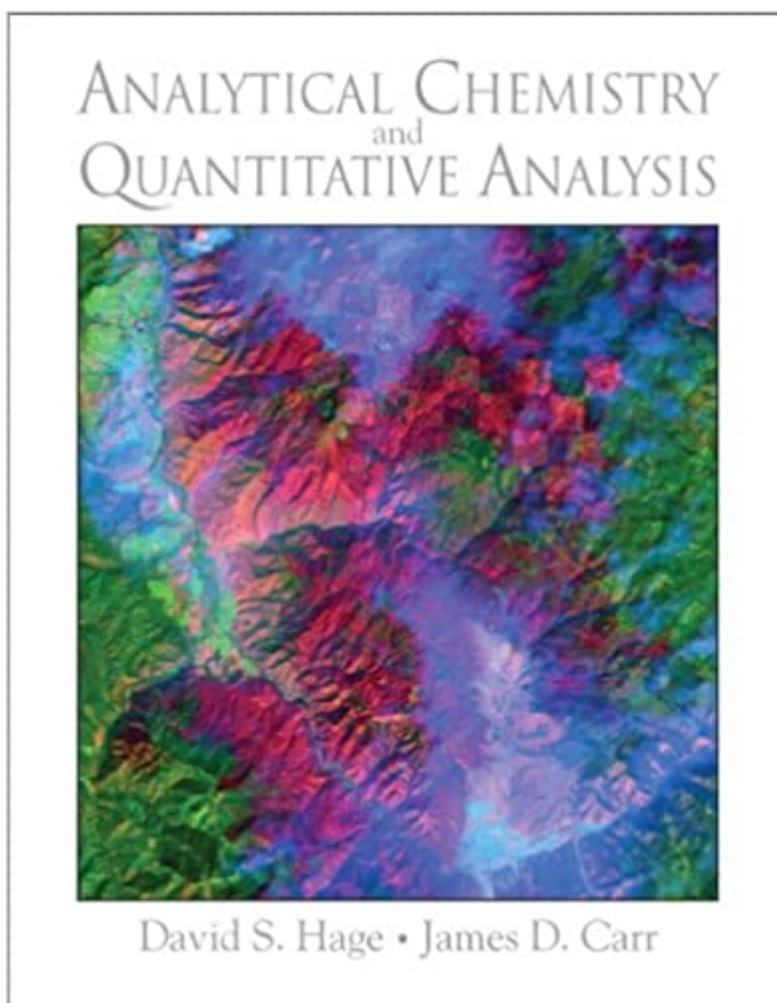


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Analytical Chemistry And Quantitative Analysis



Synopsis

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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The course I took covered all chapters. I thought this was a GREAT textbook for learning analytical

chemistry. If you need to save time, get the Solutions Manual for detailed explanations to the chapter exercises. The only other sources I used was Quantitative Chemical Analysis (Harris, 8th ed.) and the ChemLibre online texts for a particular experiment of extracting and measuring caffeine in chocolate.

no issue

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The book is the best choice for studying analytical chemistry. It combines the stuff from Analytical textbooks by Harris and Skoog presents it in a very understandable manner.

Excellent

Great

Very poor at explaining most things. Mentions the existence of methods and concepts but doesn't explain them, then has questions about them at the end of the chapter. Vague, generalized blurbs don't promote a deep understanding of the subject. Normally I can clarify my confusion by careful and thoughtful reading. Not so with this book. Between organic, inorganic, and p chem, this is the worst chem book I've used. The further I get, the more confident I feel in my opinion.

We already have three excellent-to-very-good undergraduate analytical chemistry texts on the market - Harris (ISBN 146413538X), Skoog (ISBN 0495558281) and Christian (ISBN 0470887575). All 3 have been around forever and are now refined to the point of near perfection. A recent entrant has already tried to penetrate this market and failed: David Harvey's "Modern Analytical Chemistry" (ISBN 0072375477), which is a book I strongly like. Do yourself a favor & hunt down a used copy of that or download the revised 2nd edition in PDF from the author's website at Depauw U. Why pay for a textbook when something so good is available for free? If you look at the table of contents of Hage & Carr (below) and compare it to the above "big 3" you'll see there's hardly any difference.

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