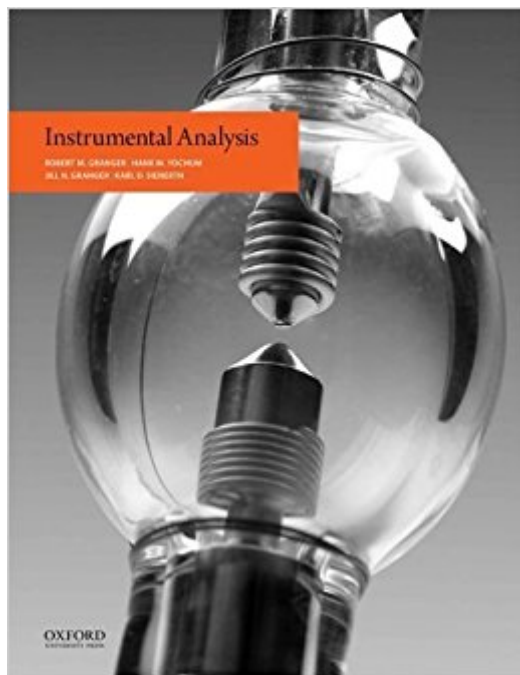


The book was found

Instrumental Analysis



Synopsis

At its core, Instrumental Analysis covers the underlying theory, instrumental design, applications, and operation of spectroscopic, electroanalytical, chromatographic, and mass spectral instrumentation. It provides students with the requisite skills to identify the comparative advantages and disadvantages in choosing one analytical technique over another by combining direct comparisons of the techniques with a discussion of how these choices affect the interpretation of the data in its final form. The text is organized into sections that include Spectroscopy & Spectrometry, Separation Science, and Electroanalytical Chemistry. Comprehensive and engaging, Instrumental Analysis provides the most modern coverage of chemical instrumentation. ABOUT THE COVER Xenon Arc lamps (sources) produce a broad spectral output from ~ 185 nm to 2000 nm. This is also the approximate spectral range of natural sunlight. Because Xenon sources can be as bright as 33,000 lumens, their relatively high intensity and broad spectral range make them well suited for UV-vis spectroscopy, where low level detection and high spectral resolution are required. This component, along with other sources such as light-emitting diodes (LEDs), is presented in chapter 6 of Instrumental Analysis.

Book Information

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Customer Reviews

"This instrumental analysis textbook is written with the student in mind, as the concepts are laid out clearly with good supporting 'Profiles,' exercises, and problems that reinforce the concepts. The concepts are explained in a clear and simple manner such that the students can understand them without being overwhelmed with information as is the case for other textbooks. I think the students

will learn the material far better from this text than they do from other textbooks commonly in use.

--Greg Swain, Michigan State University "This textbook is a much needed replacement for Skoog, 6th edition as an introductory undergraduate textbook. It provides sufficient introductory information for undergraduates, as well as crucial emphasis on microscale, nano, portable, and other new instrumentation. This book covers everything, the organization is clear, and the writing is simple to understand." --Tami Lasseter Clare, Portland State University "I thoroughly enjoyed reading chapters from this book. I have never seen such concise and easy-to-understand exposition on the principles of Raman spectroscopy. Undergraduates will like the way topics are explained in this book, and will appreciate that every time a new concept or technique is introduced, the text provides examples and exercises that are designed to help students solidify their understanding. This is a hands-on, easy-to-understand, and practically useful textbook. --Chul Kim, California State University East Bay "I like this book's simplicity and the way it addresses its audience of predominantly undergraduate students. The approach is simple, with a depth of coverage that is appropriate for undergraduates. Instructors should have no need for supplementary materials, and the key concepts were presented seamlessly with related topics for a typical one-semester undergraduate instrumental analysis course. The chapters provide concise and relevant introductions to key topics." --Dan Sykes, Pennsylvania State University

Robert M. Granger II is Chair and Professor of Chemistry at Sweet Briar College. Hank M. Yochum is Professor of Physics and Engineering and Director of the Margaret Jones Wyllie '45 Engineering Program at Sweet Briar College. Jill N. Granger is Dean of the Honors College at Western Carolina University. Karl D. Sienert is Chair and Professor of Chemistry at Elon University.

I had high hopes for this book. The classic text on this subject, Skoog's Principles of Instrumental Analysis, has gotten unjustifiably expensive (\$435). Granger's book reads well and has about the right depth and breadth of topic coverage. It's reasonably priced. That's as far as I can go with positives. There are frequent errors, some of them very significant. I've had to make up my own errata for my students, and it expands every week. The publisher supplied a solutions guide, but the answers are more often wrong than right. Whoever wrote the guide frankly doesn't know what they're doing. There are frequent mathematical errors, and the concept of units seems foreign. One question I just looked at asks for an answer in units of nm, but the solution guide gives it as 0.015 μm . It's not just the units that are wrong, the right answer is 3 nm. That said, now that I've put all the effort into correcting errors and making up my own solution guide, I may stick with this book next

year to save my students the about \$300 price difference between this and Skoog's book, but I won't be happy about it.

give my parents , arrive on time. I got it in the mail and it came in a nice case which I enjoyed. I love the feel and how heavy it is. When I got it, I immediately washed it and tested it out and it cut through some peppers like butter. I really liked it. Very well. professional service.

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