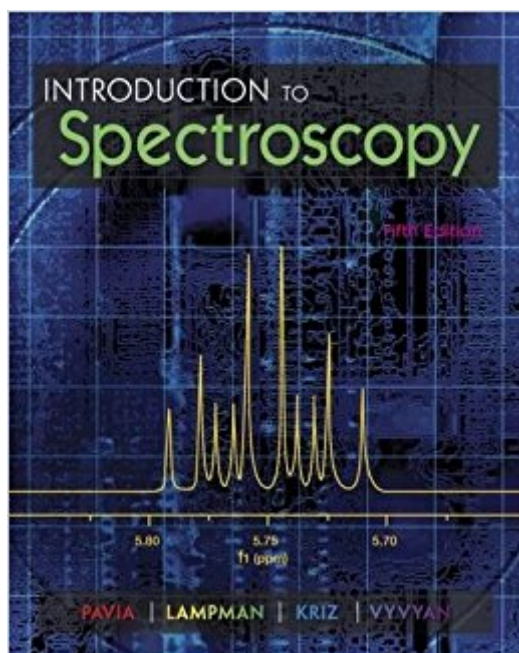


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# Introduction To Spectroscopy



## Synopsis

Gain an understanding of the latest advances in spectroscopy with INTRODUCTION TO SPECTROSCOPY. This proven book provides a systematic introduction to spectra and basic theoretical concepts in spectroscopic methods and includes up-to-date spectra; a modern presentation of one-dimensional nuclear magnetic resonance (NMR) spectroscopy; an introduction to biological molecules in mass spectrometry; and coverage of modern techniques alongside DEPT, COSY, and HECTOR.

## Book Information

Paperback: 784 pages

Publisher: Brooks Cole; 5 edition (January 1, 2014)

Language: English

ISBN-10: 128546012X

ISBN-13: 978-1285460123

Product Dimensions: 8 x 1.3 x 9.9 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars 7 customer reviews

Best Sellers Rank: #64,042 in Books (See Top 100 in Books) #15 in Books > Science & Math > Chemistry > Analytic #391 in Books > Textbooks > Science & Mathematics > Chemistry #764 in Books > Science & Math > Physics

## Customer Reviews

Donald L. Pavia earned his BS degree in chemistry from Reed College and his PhD in organic chemistry from Yale University. In 1970, he joined the faculty at Western Washington University as Assistant Professor and now holds the rank of Professor Emeritus. He is the coauthor of two organic laboratory books that include techniques and experiments: INTRODUCTION TO ORGANIC LABORATORY TECHNIQUES: A MICROSCALE APPROACH (Cengage Learning), and A SMALL SCALE APPROACH TO ORGANIC LABORATORY TECHNIQUES (Cengage Learning), as well as MICROSCALE AND MACROSCALE TECHNIQUES IN THE ORGANIC LABORATORY (Cengage Learning), which highlights techniques to be used with a faculty member's own experiments. He is a co-author, with Gary M. Lampman, George S. Kriz and James R. Vyvyan of an organic spectroscopy book, INTRODUCTION TO SPECTROSCOPY (Cengage Learning). Professor Pavia's research interests center on the synthesis and reactions of valence tautomeric and photochromic compounds, especially pyrylium-3-oxide tautomers. Autoxidations are a special

interest. His other interests include the use of computers in teaching organic chemistry, both for lecture presentation and for the simulation of laboratories. He is the author of several computer programs. One such program is SQUALOR (Simulated Qualitative Organic Analysis) for which he won the 1986 EDUCOM/NCRIPTAL award. The program is designed for teaching the methods for solving organic unknowns.

Gary M. Lampman earned his BS degree in chemistry from the University of California, Los Angeles, and his PhD in organic chemistry from the University of Washington. In 1964, he joined the faculty at Western Washington University as Assistant Professor, rising to Professor in 1973. He received the Outstanding Teaching Award for the College of Arts and Sciences in 1976. He now holds the title of Professor Emeritus. Teaching has always been an important part of his life. Contact with students invigorates him. He is the coauthor of two organic laboratory books that include techniques and experiments: INTRODUCTION TO ORGANIC LABORATORY TECHNIQUES: A MICROSCALE APPROACH (Cengage Learning), and A SMALL SCALE APPROACH TO ORGANIC LABORATORY TECHNIQUES (Cengage Learning), as well as MICROSCALE AND MACROSCALE TECHNIQUES IN THE ORGANIC LABORATORY (Cengage Learning), which highlights techniques to be used with a faculty member's own experiments. He is a co-author, with Donald L. Pavia, George S. Kriz, and James R. Vyvyan of an organic spectroscopy book, INTRODUCTION TO SPECTROSCOPY, Fourth Edition (Cengage Learning). Professor Lampman also is the author of the computer program for teaching organic nomenclature: ORGANIC NOMENCLATURE: AN INTRODUCTION TO THE IUPAC SYSTEM. His research interests center on synthetic methods involving the reaction of free radicals on unsaturated cobaloximes (vitamin B12 model compounds), synthesis of strained small ring compounds, and chemical education. He is the author of 18 papers in these areas. He is a member of the American Chemical Society (Organic and Chemical Education divisions), and the Washington College Chemistry Teachers Association.

George S. Kriz is Professor of Chemistry at Western Washington University. He earned his B.S. degree in chemistry from the University of California, and his Ph.D. from Indiana University, Bloomington, IN. In 1967 he joined the faculty at Western Washington University and recently served as department chair. He served as the General Chair of the 17th Biennial Conference on Chemical Education for 2001-2002. Professor Kriz was honored with the Peter J. Elich Excellence in Teaching Award (College of Arts and Sciences), Western Washington University, in 2000 and the Distinguished Service Award from the Division of Chemical Education, American Chemical Society (2010). He is the co-author with Donald Pavia, Gary Lampman, and Randall Engel of two organic laboratory books that include both techniques and experiments: INTRODUCTION TO ORGANIC LABORATORY TECHNIQUES: A MICROSCALE APPROACH

(Cengage Learning), and A SMALL SCALE APPROACH TO ORGANIC LABORATORY TECHNIQUES (Cengage Learning). Their book, MICROSCALE AND MACROSCALE TECHNIQUES IN THE ORGANIC LABORATORY (Cengage Learning), includes techniques only, and can be used with a faculty member's own experiments. He is a co-author, with Donald Pavia, Gary Lampman, and James Vyvyan, of an organic spectroscopy book, INTRODUCTION TO SPECTROSCOPY (Cengage Learning). Professor Kriz's research interests include: developing new experiments for the organic chemistry laboratory; chemical education and the teaching of chemistry courses for general-understanding audiences; and determination of the structures of natural products using spectroscopic methods. James A. Vyvyan earned his BS degree in chemistry at the University of Wisconsin-Eau Claire and his PhD at the University of Minnesota. In 1995, he joined the Western Washington University faculty and was promoted to Professor in 2005. He has been awarded the Henry Dreyfus Teacher-Scholar Award (2003), the NSF CAREER Award (2001-2006), and an ACS Graduate Fellowship (1995). For the fourth edition of INTRODUCTION TO SPECTROSCOPY, he joined the author team with Pavia, Lampman, and Kriz to help with revisions to the text. Professor Vyvyan's areas of interests include the total synthesis of natural products, development of synthetic methods, and structure determination using NMR.

Probably one of the few textbooks that I can say is truly worth the investment. The explanations for the different types of spectroscopy are clear and examples given are very helpful in the determination of MS, IR, NMR, and UV spectra. A definite keeper. I kind of wish a hard copy of the book existed for increased durability. That reminds me, I need to get this back from a friend who also wished the book was cheaper so he would have his own copy. Instead he had to borrow mine

I've used this book for IR,  $^1\text{H}$ NMR and  $^{13}\text{C}$ NMR. Just make sure to answer all the problems and the answer key for the unsolved ones can be found in Chegg study. I didn't like how this book approach Mass spectrometry; I found more in the instrumental side and I needed fragmentation explanation so I used Silverstein for the MS portion. Bottom line, highly recommend for organic structure determination course.

This book is a photocopy of the original. Some NMR spectra are not printed at all, because the original spectrum line was very thin.

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