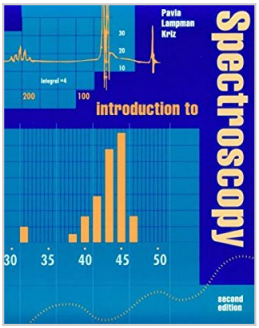

Introduction to Spectroscopy: A Guide for Students of Organic Chemistry (Saunders golden sunburst series)

By Donald L. Pavia, Gary M. Lampman, George S. Kriz

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A true introductory text for learning the spectroscopic techniques of Nuclear Magnetic Resonance, Infrared, Ultraviolet and Mass Spectrometry. It can be used in a stand alone spectroscopy course or as a supplement to the sophomore-level organic chemistry course.

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Editorial Review

About the Author
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 ARPPROACH 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 Distinguised 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.

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