DESCRIPTION

This book provides an introduction to the important methods of chiroptical spectroscopy in general, and circular dichroism (CD) in particular, which are increasingly important in all areas of chemistry, biochemistry, and structural biology. The book can be used as a text for undergraduate and graduate students and as a reference for researchers in academia and industry. Experimental methods and instrumentation are described with topics ranging from the most widely used methods (electronic and vibrational CD) to frontier areas such as nonlinear spectroscopy and photoelectron CD, as well as the theory of chiroptical methods and techniques for simulating chiroptical properties. Applications of chiroptical spectroscopy to problems in organic stereochemistry, inorganic stereochemistry, and biochemistry and structural biology are also discussed, and each chapter is written by one or more leading authorities with extensive experience in the field.

ABOUT THE AUTHOR

Nina Berova is a Research Professor in the Department of Chemistry at Columbia University. She has been a coeditor of the journal Chirality (Wiley) since 1998.
Prasad L. Polavarapu is currently a Professor of Chemistry at Vanderbilt University.

Koji Nakanishi is one of the world’s leading natural products chemists and was editor of the journal, The Chemical Record (Wiley). He retired from Columbia University in 2007, but continues to conduct research.

Robert W. Woody is an Emeritus Professor at Colorado State University.

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