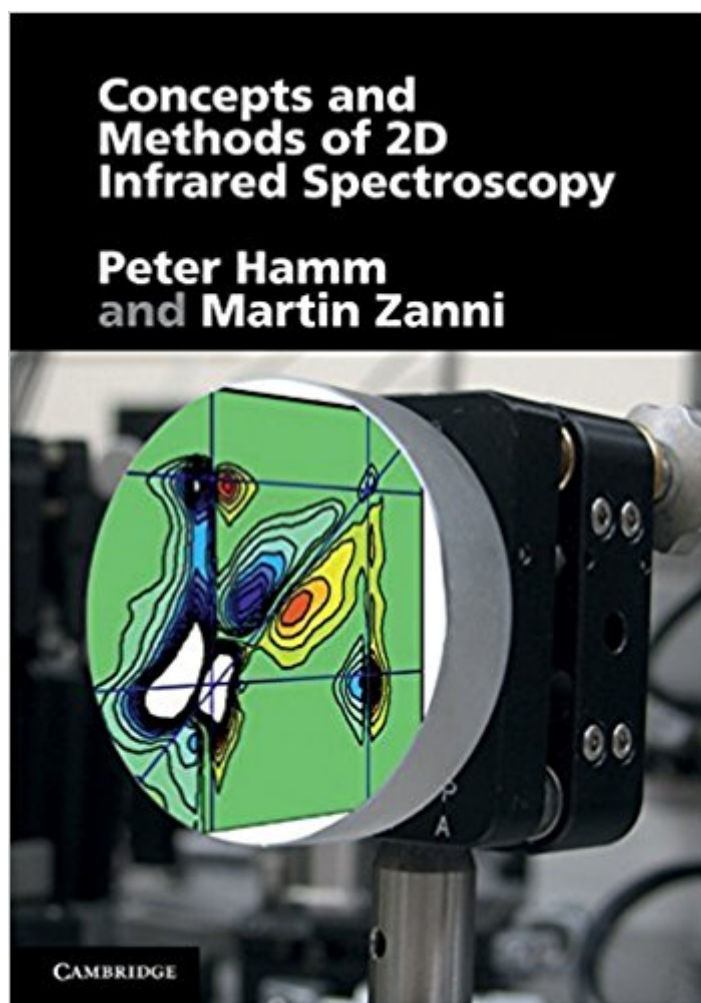


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Concepts And Methods Of 2D Infrared Spectroscopy



Synopsis

2D infrared (IR) spectroscopy is a cutting-edge technique, with applications in subjects as diverse as the energy sciences, biophysics and physical chemistry. This book introduces the essential concepts of 2D IR spectroscopy step-by-step to build an intuitive and in-depth understanding of the method. This unique book introduces the mathematical formalism in a simple manner, examines the design considerations for implementing the methods in the laboratory, and contains working computer code to simulate 2D IR spectra and exercises to illustrate involved concepts. Readers will learn how to accurately interpret 2D IR spectra, design their own spectrometer and invent their own pulse sequences. It is an excellent starting point for graduate students and researchers new to this exciting field. Computer codes and answers to the exercises can be downloaded from the authors' website, available at www.cambridge.org/9781107000056.

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Customer Reviews

Introducing the essential concepts of 2D IR spectroscopy, this book is an excellent starting point for graduate students and researchers new to this exciting field. It develops an intuitive understanding so readers will be able to accurately interpret 2D IR spectra and design their own spectrometer.

Peter Hamm is a Professor at the Institute of Physical Chemistry, University of Zurich. Martin Zanni is Meloche-Bascom Professor in the Department of Chemistry, University of Wisconsin, Madison.

This book is quite pedagogical and really informative about the recently developed two-dimensional spectroscopy technique. It is highly recommended for investigators entering in this field.

This is a very good book discussed about how to set up 2d ir spectroscopy. It also contains a code to illustrate it.

Great!!

Peter Hamm just has this rare ability of making difficult and complex properties really understandable.

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