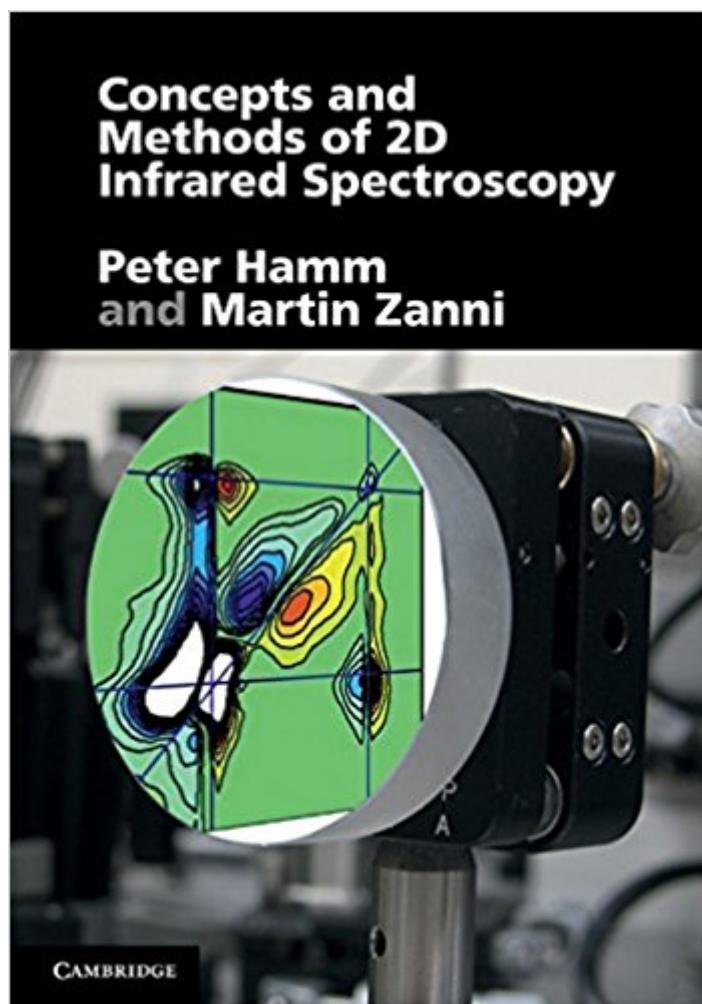


The book was found

# 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](http://www.cambridge.org/9781107000056).

## Book Information

Hardcover: 298 pages

Publisher: Cambridge University Press; 1 edition (March 28, 2011)

Language: English

ISBN-10: 110700005X

ISBN-13: 978-1107000056

Product Dimensions: 6.8 x 0.7 x 9.7 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 4 customer reviews

Best Sellers Rank: #619,959 in Books (See Top 100 in Books) #175 in Books > Science & Math > Chemistry > Analytic #205 in Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry #588 in Books > Science & Math > Experiments, Instruments & Measurement > Methodology & Statistics

## 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.

[Download to continue reading...](#)

Concepts and Methods of 2D Infrared Spectroscopy Symmetry and Spectroscopy: An Introduction to Vibrational and Electronic Spectroscopy (Dover Books on Chemistry) Topics in Fluorescence Spectroscopy, Vol. 10: Advanced Concepts in Fluorescence Sensing, Pt. B: Macromolecular Sensing Topics in Fluorescence Spectroscopy, Vol. 9: Advanced Concepts in Fluorescence Sensing, Pt. A: Small Molecule Sensing Infrared and Raman Spectra of Inorganic and Coordination Compounds, Applications in Coordination, Organometallic, and Bioinorganic Chemistry Infrared and Raman Spectra of Inorganic and Coordination Compounds, Part B: Applications in Coordination, Organometallic, and Bioinorganic Chemistry, 5th Edition Infrared and Raman Characteristic Group Frequencies: Tables and Charts, 3rd Edition Chirelstein's Federal Income Taxation: A Law Student's Guide to the Leading Cases and Concepts (Concepts and Insights) (Concepts and Insights Series) Build Your Own Working Fiberoptic Infrared and Laser Space-Age Projects Evaluation of rapid scanning techniques for concrete bridge decks: Inspections using Ground Penetrating Radar and Infrared Thermography Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) The Handbook of Infrared and Raman Characteristic Frequencies of Organic Molecules Tuning in to Nature: Solar Energy, Infrared Radiation,&the Insect Communication System Zapped: From Infrared to X-rays, the Curious History of Invisible Light Atoms, Molecules and Optical Physics 2: Molecules and Photons - Spectroscopy and Collisions (Graduate Texts in Physics) Scanning Probe Microscopy and Spectroscopy: Theory, Techniques, and Applications Atoms, Molecules and Optical Physics 1: Atoms and Spectroscopy (Graduate Texts in Physics) Molecular Excitation Dynamics and Relaxation: Quantum Theory and Spectroscopy Spectroscopy and Optical Diagnostics for Gases Group Theory in Chemistry and Spectroscopy: A Simple Guide to Advanced Usage (Dover Books on Chemistry)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)