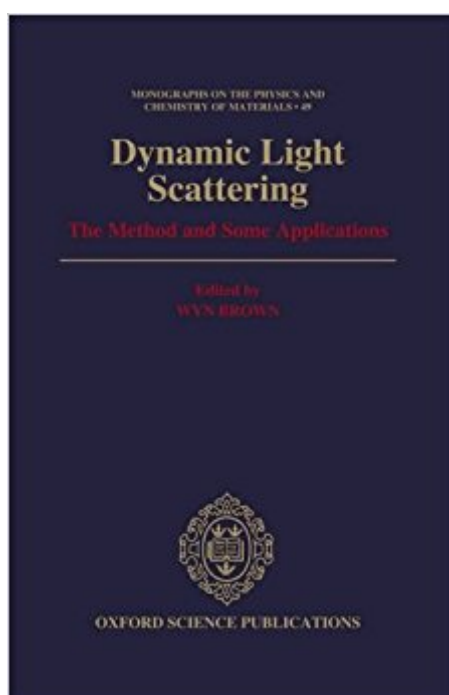


The book was found

Dynamic Light Scattering: The Method And Some Applications (Monographs On The Physics And Chemistry Of Materials)



Synopsis

Dynamic light scattering is a new method for investigating macromolecular systems. The importance of the technique lies in its non-invasive character. It can be employed on extremely small fluid volumes, the instrumentation is relatively inexpensive and allows the rapid determination of diffusion coefficients as well as providing information on relaxation time distributions for the macromolecular components of complex systems. This volume is directed in part to the philosophy and current practice in dynamic light scattering. Single photon correlation techniques are introduced; a discussion of noise on photon correlation functions is given and data analysis in dynamic light scattering to polymer structure analysis is presented; and a comprehensive introduction to diffusing wave spectroscopy is given. Theoretical developments relating dynamic light scattering to the viscoelasticity of polymers in solution and in the bulk are described. A secondary aim of the work is to illustrate the widely varying fields in which the technique finds application. Chapters address multicomponent mixtures, polyelectrolytes, dense polymer systems, gels, rigid rods, micellar systems and the application of dynamic light scattering to biological systems.

Book Information

Series: Monographs on the Physics and Chemistry of Materials (Book 49)

Hardcover: 752 pages

Publisher: Clarendon Press; 1 edition (February 25, 1993)

Language: English

ISBN-10: 0198539428

ISBN-13: 978-0198539421

Product Dimensions: 6.5 x 1.9 x 9.6 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,167,913 in Books (See Top 100 in Books) #91 in [Books > Science &](#)

[Math > Chemistry > Polymers & Macromolecules](#) #1162 in [Books > Science & Math >](#)

[Chemistry > Physical & Theoretical > Physical Chemistry](#) #1936 in [Books > Science & Math >](#)

[Physics > Optics](#)

Customer Reviews

the book is to be recommended to workers with some experience in the field as a reference to recent developments * Faraday Transactions: Issue 9, May 1994 *

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

Dynamic Light Scattering: The Method and Some Applications (Monographs on the Physics and Chemistry of Materials) Polymers and Neutron Scattering (Oxford Series on Neutron Scattering in Condensed Matter) Neutron Scattering in Layered Copper-Oxide Superconductors (Physics and Chemistry of Materials with Low-Dimensional Structures) Some We Love, Some We Hate, Some We Eat: Why It's So Hard to Think Straight About Animals Some We Love, Some We Hate, Some We Eat: Why It's So Hard to Think Straight About Animals (P.S.) Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology) The Chemistry of Medical and Dental Materials: RSC (RSC Materials Monographs) High Energy Electron Diffraction and Microscopy (Monographs on the Physics and Chemistry of Materials) Rare-Earth Iron Permanent Magnets (Monographs on the Physics and Chemistry of Materials) Introduction to Scanning Tunneling Microscopy (Monographs on the Physics and Chemistry of Materials) Introduction to Light: The Physics of Light, Vision, and Color (Dover Books on Physics) Light Scattering, Size Exclusion Chromatography and Asymmetric Flow Field Flow Fractionation: Powerful Tools for the Characterization of Polymers, Proteins and Nanoparticles Multiple Scattering of Light by Particles: Radiative Transfer and Coherent Backscattering The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Principles and Applications of Ion Scattering Spectrometry: Surface Chemical and Structural Analysis (Wiley Series on Mass Spectrometry) Elements of Slow-Neutron Scattering: Basics, Techniques, and Applications Electromagnetic Wave Propagation, Radiation, and Scattering: From Fundamentals to Applications (IEEE Press Series on Electromagnetic Wave Theory) Chemistry of Hazardous Materials (6th Edition) (Hazardous Materials Chemistry) Recent Advances in the Theory of Chemical and Physical Systems: Proceedings of the 9th European Workshop on Quantum Systems in Chemistry and Physics ... in Theoretical Chemistry and Physics) CRC Handbook of Chemistry and Physics, 88th Edition (CRC Handbook of Chemistry & Physics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)