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Thus the book may be considered as a state-of-the-art introductory text in solid-state spectroscopy. Each chapter includes problems. The concept of this textbook is designed for graduate students and young professors who want to set up lectures or courses in solid-state spectroscopy.

Solid-State Spectroscopy - An Introduction | Hans Kuzmany

H. Kuzmany, Solid-State Spectroscopy, DOI 10.1007/978-3-642-01479-6 1, c Springer-Verlag Berlin Heidelberg 2009 1 2 1 Introduction sition of a structure in a spectrum. The magnitude of the structure is related to the rate of the transitions between the two states.

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To answer these mechanistic biophysical questions, we innovate multinuclear (^1H , ^{13}C , ^{15}N , ^{19}F , ^2H , & ^{31}P) and multidimensional solid-state NMR techniques that measure molecular structure, inter-atomic distances, and amplitudes and rates of molecular motions with high sensitivity.

Hong Lab MIT • magic-angle-spinning solid-state NMR

The section on Fundamentals contains relatively long chapters that deal with the basic theory and practice of solid-state NMR. The essential differences and extra scope of solid-state NMR over solution-state is dealt with in an introductory chapter.

Solid-State NMR Spectroscopy Principles and Applications

developments of solid-state NMR spectroscopy, including techniques such as cross-polarization, magic-angle spinning, multiple-pulse sequences, homo- and heteronuclear decoupling and recoupling techniques, multiple-quantum spectroscopy, and dynamic angle spinning, as well as their applications

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About the Author Melinda Duer is a Lecturer in the Department of Chemistry, University of Cambridge and has worked in the field of solid-state NMR spectroscopy for more than ten years.. Download Solid State NMR Spectroscopy: Principles and Applications â€” Melinda J. Duer PDF free

Solid State NMR Spectroscopy: Principles and Applications

Thus the book may be considered as a state-of-the-art introductory text in solid-state spectroscopy. Each chapter includes problems. The concept of this textbook is designed for graduate students and young professors who want to set up lectures or courses in solid-state spectroscopy.

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Solid-State spectroscopy is a burgeoning field with applications in many branches of science, including physics, chemistry, biosciences, surface science, and materials science. Handbook of Applied Solid-State Spectroscopy brings together in one volume information about various spectroscopic techniques that is currently scattered in the literature of these disciplines.

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