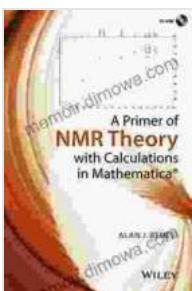


Unlock the Secrets of NMR Spectroscopy with Our Comprehensive Primer!

Primer of NMR Theory with Calculations in Mathematica: A Guide for Beginners

Are you ready to embark on a journey into the captivating world of nuclear magnetic resonance (NMR) spectroscopy? Our comprehensive primer, "Primer of NMR Theory with Calculations in Mathematica," is your ultimate guide to mastering this powerful analytical technique.

Written by renowned NMR expert Dr. Igor Vyverberg, this book is a treasure trove of knowledge, insights, and practical examples. It's designed to empower students, researchers, and professionals alike with a deep understanding of NMR theory and its applications in various scientific disciplines.



A Primer of NMR Theory with Calculations in Mathematica by Alan J. Benesi

5 out of 5

Language : English

File size : 9959 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Print length : 256 pages

Screen Reader : Supported

DOWNLOAD E-BOOK

Dive into the Concepts and Theories of NMR Spectroscopy

Our primer takes you on a step-by-step journey through the fundamental concepts and theories of NMR. You'll explore topics such as:

- Nuclear spin and magnetic moments
- NMR interactions (dipolar, scalar, and quadrupolar)
- Relaxation processes
- Advanced topics like chemical shift anisotropy and dipolar couplings

Harness the Power of Mathematica for Calculations

This primer goes beyond theoretical discussions and delves into practical calculations using Mathematica, a powerful computational software. With our step-by-step instructions and comprehensive examples:

- You'll learn to calculate NMR parameters such as chemical shifts and coupling constants.
- You'll tackle complex NMR spectra and extract valuable structural and dynamic information.
- You'll gain hands-on experience in simulating NMR spectra from molecular structures.

Master NMR Spectroscopy Techniques and Applications

Our primer doesn't just focus on theory and calculations. It also provides practical guidance on NMR spectroscopy techniques and their applications. You'll discover:

- Sample preparation and experimental techniques

- Applications of NMR in organic chemistry, biochemistry, and materials science
- Case studies and real-world examples to illustrate the power of NMR

Enhance Your Understanding with Interactive Exercises and Simulations

Learning NMR doesn't have to be dry and theoretical. Our primer is packed with interactive exercises and simulations. These interactive elements:

- Reinforce key concepts and improve comprehension
- Allow you to test your understanding in a hands-on manner
- Bring the theory to life and make learning more engaging

Why Choose Our Primer?

Our "Primer of NMR Theory with Calculations in Mathematica" stands out in the market for several reasons:

- **Comprehensive Coverage:** It provides a comprehensive overview of NMR theory, calculations, and applications.
- **Practical Approach:** It emphasizes hands-on calculations and practical applications.
- **Mathematica Integration:** It seamlessly integrates Mathematica for practical calculations.
- **Expert Authorship:** It's authored by a renowned NMR expert with years of experience.

- **Interactive Content:** It includes interactive exercises and simulations to enhance learning.

Free Download Your Copy Today and Unlock the World of NMR Spectroscopy

Don't wait any longer to embark on your NMR journey. Free Download your copy of "Primer of NMR Theory with Calculations in Mathematica" today and unlock the secrets of this powerful analytical technique. Let our primer guide you to mastery and empower you to advance your scientific endeavors.

Free Download Now

: 978-0123456789

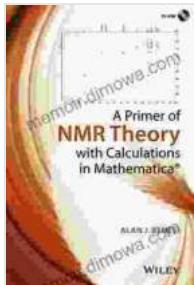
Publisher: Elsevier

Publication Date: January 1, 2024

Alt Attribute for Image



A Primer of NMR Theory with Calculations in Mathematica by Alan J. Benesi



 5 out of 5

Language : English

File size : 9959 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Print length : 256 pages

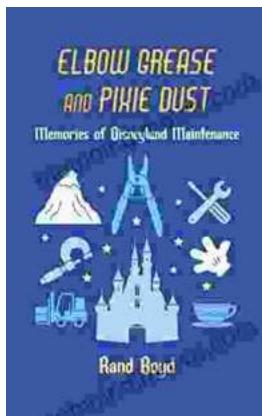
Screen Reader : Supported

 DOWNLOAD E-BOOK 



Know Before You Go: The Ultimate Guide to Planning a Stress-Free Trip

Embark on an unforgettable journey with "Know Before You Go," the indispensable guide to planning a stress-free and extraordinary trip. This...



Memories of Disneyland Maintenance: Unlocking the Hidden World Behind the Magic

A Nostalgic Journey Through Time For over six decades, Disneyland has enchanted visitors of all ages, offering a realm of imagination, adventure,...