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Tao Wei

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2001 Goldschmidt Conference in nearby Hot Springs Virginia The Nuclear Overhauser Effect Joseph Noggle, 2012-12-02 The Nuclear Overhauser Effect aims to provide a unified treatment of both the theory and applications of the NOE that would be accessible to the chemist who is not a specialist in NMR but who would nevertheless like to use the NOE to solve problems in his own area of interest Assuming only that the reader has a typical chemist's working knowledge of NMR an attempt is made to present the results in each section in a sufficiently simple form so that little mathematical sophistication will be required to apply them with understanding This book comprises eight chapters and begins with a focus on nuclear spin lattice relaxation The following chapters then discuss mechanisms of spin lattice relaxation the nuclear overhauser effect in rigid molecules the effects of internal motions experimental methods transient methods the effects of chemical exchange and applications of the nuclear overhauser effect with a review of available literature This book will be of interest to practitioners in the fields of chemistry and physics Carolina Science and Math Carolina Biological Supply Disciplines as Frameworks for Student Learning Tim Riordan, James Roth, 2023-07-03 What should Company, 2003 students be able to do and how should they be able to think as a result of study in a discipline What does learning in the disciplines look like at different developmental levels How does one go about designing such learning and assessment in the disciplines What institutional structures and processes can assist faculty to engage and teach their disciplines as frameworks for student learning Creating ways to make a discipline come alive for those who are not experts even for students who may not take more than one or two courses in the disciplines they study requires rigorous thought about what really matters in a field and how to engage students in the practice of it Faculty from Alverno College representing a range of liberal arts disciplines chemistry economics history literature mathematics and philosophy here reflect on what it has meant for them to approach their disciplines as frameworks for student learning They present the intellectual biographies of their explorations the insights they have gained and examples of the practices they have adopted The authors all demonstrate how the ways of thinking they have identified as significant for their students in their respective disciplines have affected the way they design learning experiences and assessments They show how they have shaped their teaching around the ways of thinking they want their students to develop within and across their disciplines and what that means in terms of designing assessments that require students to demonstrate their thinking and understanding through application and use This book will appeal to faculty interested in going beyond mere techniques to a more substantive analysis of how their view of their respective disciplines might change when seen through the lens of student learning It will also serve the needs of graduate students trainers of Tas and anyone engaged in faculty development or interested in the scholarship of teaching Free Energy **Calculations** Christophe Chipot, Andrew Pohorille, 2007-01-15 This volume offers a coherent account of the concepts that underlie different approaches devised for the determination of free energies It provides insight into the theoretical and computational foundations of the subject and presents relevant applications from molecular level modeling and simulations of

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