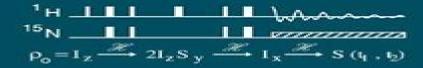
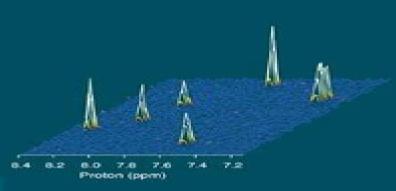
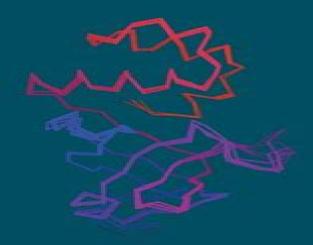
Fundamentals of Protein NMR Spectroscopy

by Gordon S. Rule and T. Kevin Hitchens









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understanding the special requirements of protein NMR Biomolecular NMR Spectroscopy Andrew J. Dingley, A. J. Dingley, Steven M. Pascal, 2011 Nuclear Magnetic Resonance NMR spectroscopy is the most powerful technique for characterisation of biomolecular structures at atomic resolution in the solution state This timely book entitled Biomolecular NMR Spectroscopy focuses on the latest state of the art NMR techniques for characterisation of biological macromolecules in the solid and solution state The editors Dr Andrew Dingley University of Auckland New Zealand and Dr Steven Pascal Massey University New Zealand have organised the book into four sections covering the following topics i sample preparation ii structure and dynamics of proteins iii structure and dynamics of nucleic acids and protein nucleic acid complexes and iv rapid and hybrid techniques including the latest advances in NMR data acquisition and structural analysis and approaches that combine NMR data with data from complementary physical techniques The book will be a valuable resource for experienced scientists in academia government and public services and in industry It will also be suitable for newcomers and graduate students entering the field of biomolecular NMR spectroscopy NMR of Proteins and Small Biomolecules Guang Zhu, 2012-03-28 Application of NMR and Molecular Docking in Structure Based Drug Discovery by Jaime L Stark and Robert Powers NMR as a Unique Tool in Assessment and Complex Determination of Weak Protein Interactions by Olga Vinogradova and Jun Oin The Use of Residual Dipolar Coupling in Studying Proteins by NMR by Kang Chen und Nico Tjandra NMR Studies of Metalloproteins by Hongyan Li and Hongzhe Sun Recent Developments in 15N NMR Relaxation Studies that Probe Protein Backbone Dynamics by Rieko Ishima Contemporary Methods in Structure Determination of Membrane Proteins by Solution NMR by Tabussom Qureshi and Natalie K Goto Protein Structure Determination by Solid State NMR by Xin Zhao Dynamic Nuclear Polarization New Methodology and Applications by Kong Hung Sze Qinglin Wu Ho Sum Tse and Guang Zhu Annual Reports on NMR Spectroscopy Graham A. Webb, 2011-03-11 Nuclear magnetic resonance NMR is an analytical tool used by chemists and physicists to study the structure and dynamics of molecules In recent years no other technique has gained such significance as NMR spectroscopy It is used in all branches of science in which precise structural determination is required and in which the nature of interactions and reactions in solution is being studied Annual Reports on NMR Spectroscopy has established itself as a premier means for the specialist and non specialist alike to become familiar with new techniques and applications of NMR spectroscopy Provides updates on the latest developments in NMR spectroscopy Includes comprehensive review articles Highlights the increasing importance of NMR spectroscopy as a technique for structural determination Introduction to Modern Biophysics Mohammad Ashrafuzzaman, 2023-12-15 This textbook provides an introduction to the fundamental and applied aspects of biophysics for advanced undergraduate and graduate students of physics chemistry and biology The application of physics principles and techniques in exploring biological systems has long been a tradition in scientific research Biological systems hold naturally inbuilt physical principles and processes which are popularly explored Systematic discoveries help us understand the structures and functions of

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concepts from organic chemistry physical chemistry and biology Written in consideration of the requirements for an ACS certified BS degree in chemistry the text meets the recommendations of the American Chemical Society National Research Council and National Science Foundation to feature more biochemistry and quantitative study in the life sciences Each chapter ends with problem sets with a complete solutions manual available to instructors and key references for further Foundations of Computational Intelligence Ajith Abraham, Aboul-Ella Hassanien, André Ponce de Leon F. de Carvalho, 2009-04-21 Foundations of Computational Intelligence Volume 4 Bio Inspired Data Mining Theoretical Foundations and Applications Recent advances in the computing and electronics technology particularly in sensor devices databases and distributed systems are leading to an exponential growth in the amount of data stored in databases It has been estimated that this amount doubles every 20 years For some applications this increase is even steeper Databases storing DNA sequence for example are doubling their size every 10 months This growth is occurring in several applications areas besides bioinformatics like financial transactions government data environmental mo toring satellite and medical images security data and web As large organizations recognize the high value of data stored in their databases and the importance of their data collection to support decision making there is a clear demand for phisticated Data Mining tools Data mining tools play a key role in the extraction of useful knowledge from databases They can be used either to confirm a parti lar hypothesis or to automatically find patterns In the second case which is lated to this book the goal may be either to describe the main patterns present in dataset what is known as descriptive Data Mining or to find patterns able to p dict behaviour of specific attributes or features known as predictive Data Mining While the first goal is associated with tasks like clustering summarization and association the second is found in classification and regression problems

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