



Stereodynamics of Molecular Systems: Proceedings of a Symposium Held at the State University of New York at Albany, 23-24 April 1979

By R.H. Sarma

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Stereodynamics of Molecular Systems covers the proceedings of a symposium held at the State University of New York at Albany, on 23-24 April 1979. The book focuses on the stereodynamics of molecules and ions and nucleic acid structure. The contributions tackle spectroscopy, crystallography, perturbations, and electron-transfer reactions.

The selection first offers information on nuclear magnetic resonance spectroscopy chemical shifts, coupling constants, and molecular geometry, including chemical shifts, bond coupling constants, and constitutional features of nucleic acids. The book then takes a look at nuclear magnetic resonance spectroscopy stereodynamics of small molecules; nuclear magnetic resonance spectroscopy solution dynamics of polymer chains; and single crystal crystallography.

The publication evaluates the steric effects on electron-transfer reactions of sulfonamides; effects of isotopic perturbation on NMR spectra; and conformational mobility of the backbone of cyclic tripeptides. The book also discusses accessible surface areas of nucleic acids and their relation to folding, conformational transition, and protein recognition. Topics include polarity of exposed atoms, surface of DNA double helices, transfer RNA, and calculation of "static" accessible surface area.

The selection is a dependable reference for readers interested in the stereodynamics of molecules and ions and nucleic acid structure.

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