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Stereochemical Applications of NMR Studies in Rigid Bicyclic Systems

by Alan P. Marchand



Methods in Stereochemical Analysis, Volume 1.
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This monograph presents NMR chemical shifts, coupling constants and correlations for rigid bicyclic systems related to bicyclo[2.2.1]heptane ("norbornane") and bicyclo[2.2.2]octane. These systems are useful in that their geometries are relatively fixed, thereby permitting accurate estimations of internuclear distances and bond angles. Thus, they serve as model systems for the evaluation of steric and electronic substituent effects on NMR chemical shifts and coupling constants in nonrigid systems. Extensive tabulations of coupling constants are presented. No similar treatment of NMR data of rigid bicyclic systems has ever appeared before.

Volume 2 of Methods in Stereochemical Analysis:
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by James L. Marshall

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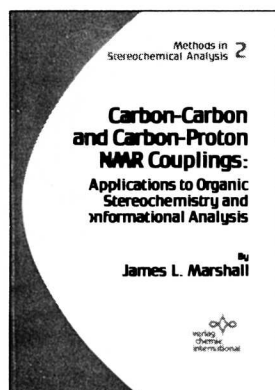


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In NMR spectroscopy, coupling constants are important clues to structural details of the compound under investigation. So far, mainly one-bond couplings have been studied, since their larger values rendered them obvious and more easily procurable. More recently, the smaller long-range couplings have become accessible by the more sophisticated techniques that are now available. They have the advantage over one-bond couplings in that they can be compared with the couplings of geometrically equivalent proton-proton systems. Thus they allow conformational and stereochemical analyses.

The unique role that long-range couplings can play in the stereochemical elucidation of organic compounds called for a monograph that is exclusively devoted to this topic. The reader, who is assumed to be familiar with the principles of NMR, Fourier transform techniques and proton-proton couplings, will find here all the information he needs in order to successfully apply this advanced method of instrumental analysis.

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