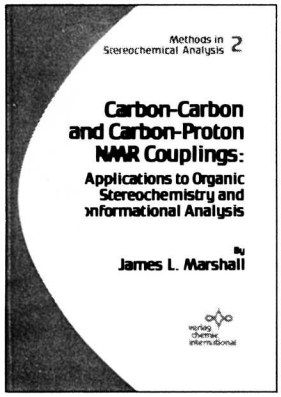
Carbon-Carbon and Carbon-Proton NMR Couplings:

Applications to Organic Stereochemistry and Conformational Analysis

by **James L. Marshall**



Methods in Stereochemical Analysis, Volume 2.
1983. X, 241 pages, 9 figures and numerous tables.
Hardcover. DM 175.–/approximately $ 49.95./£ 55.00.
ISBN 3-527-25977-5.

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.

Printed in Great Britain by Richard Clay (The Chaucer Press), Ltd., Bungay, Suffolk