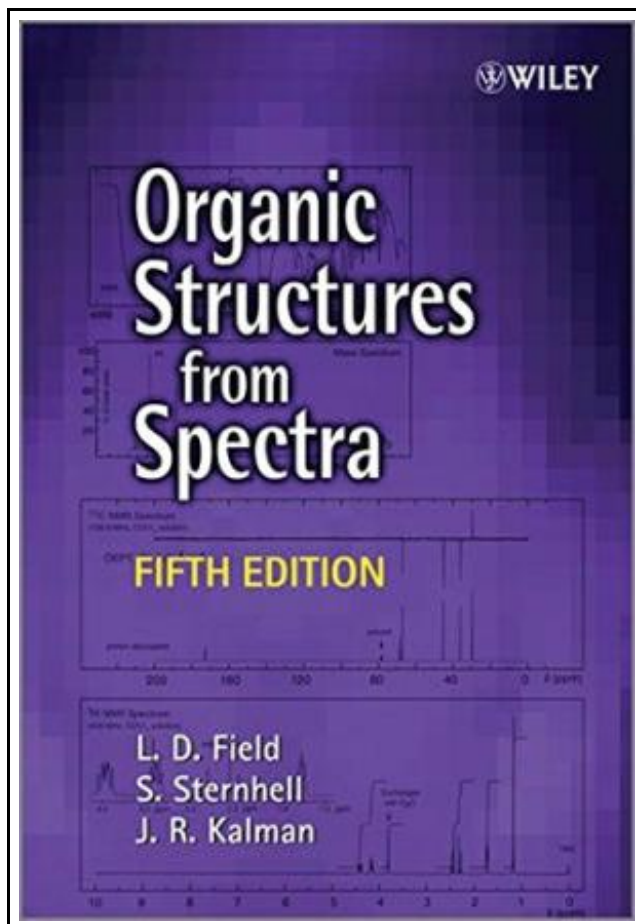


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John Wiley & Sons Inc. Paperback. Book Condition: new. BRAND NEW, Organic Structures from Spectra (5th Revised edition), L. D. Field, S. Sternhell, J. R. Kalman, The derivation of structural information from spectroscopic data is now an integral part of organic chemistry courses at all Universities. A critical part of any such course is a suitable set of problems to develop the student's understanding of how structures are determined from spectra. Organic Structures from Spectra, Fifth Edition is a carefully chosen set of more than 280 structural problems employing the major modern spectroscopic techniques, a selection of 27 problems using 2D-NMR spectroscopy, more than 20 problems specifically dealing with the interpretation of spin-spin coupling in proton NMR spectra and 8 problems based on the quantitative analysis of mixtures using proton and carbon NMR spectroscopy. All of the problems are graded to develop and consolidate the student's understanding of organic spectroscopy. The accompanying text is descriptive and only explains the underlying theory at a level which is sufficient to tackle the problems. The text includes condensed tables of characteristic spectral properties covering the frequently encountered functional groups. The examples themselves have been selected to include all important common structural features found in organic compounds and to emphasise connectivity arguments. Many of the compounds were synthesised specifically for this purpose. There are many more easy problems, to build confidence and demonstrate basic principles, than in other collections. The fifth edition of this popular textbook: * includes more than 250 new spectra and more than 25 completely new problems; * now incorporates an expanded suite of new problems dealing with the analysis of 2D NMR spectra (COSY, C H Correlation spectroscopy, HMBC, NOESY and TOCSY); * has been expanded and updated to reflect the new developments in NMR and to retire older techniques...



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