Advanced Applications of NMR to Organometallic Chemistry

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DESCRIPTION

This new series offers leading contributions by well known chemists reviewing the state-of-the-art of this wide research area. Physical Organometallic Chemistry aims to develop new insights and to promote novel interest and investigations applicable to organometallic chemistry.

NMR spectroscopy has had a considerable impact on many fields of chemistry, although it has served organometallic chemistry mainly on a routine level. In a collection of reviews, leading chemists provide an insight into the scope of applications and uncover the potential of this technique for organometallic chemists. Advanced Applications of NMR to Organometallic Chemistry;

• Illustrates how recent 1D and 2D and specialized multinuclear applications can solve specific problems encountered by organometallic chemists

• Surveys modern NMR techniques in organometallic chemistry

• Includes metal NMR related techniques

• Focuses on the advent of solid state NMR in organometallic chemistry

This book will prove invaluable to the NMR spectroscopist and organometallic chemists and will also be of interest to all organic, inorganic and physical chemists

Contents: Selective Excitation and Selective Detection in 29Si NMR; Two-dimensional 13C, Metal Nuclei Correlation; Two-dimensional 1H- 119Sn Proton Detected Correlation Spectroscopy in Coordination Chemistry of Hypervalent Organotin Compounds; Indirect Nuclear 119Sn-X Spin-Spin Coupling; Solid State NMR Applications in Organotin and Organolead
Chemistry; Solid State NMR Investigations of Metal Carbonyl Complexes; High Pressure NMR in Organometallic Chemistry; Multinuclear NMR Spectroscopy in Supercritical Fluids; High Resolution 6,7Li NMR of Organolithium Compounds; Metal NMR of Organovanadium, -Niobium and -Tantalum Compounds; NMR of Metallic Nuclei in Clusters; 171Yb NMR Spectroscopy.

ABOUT THE AUTHOR

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Professor Gielen is the author of several organometallic books and editor of the journals *Main Group Metal Chemistry* and *Applied Organometallic Chemistry*.


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SERIES

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