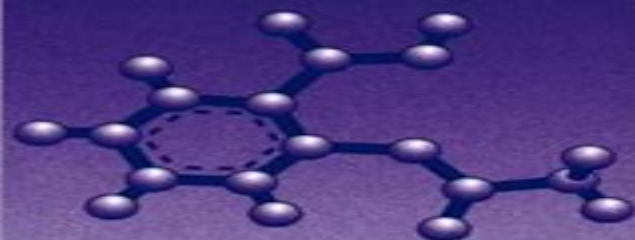


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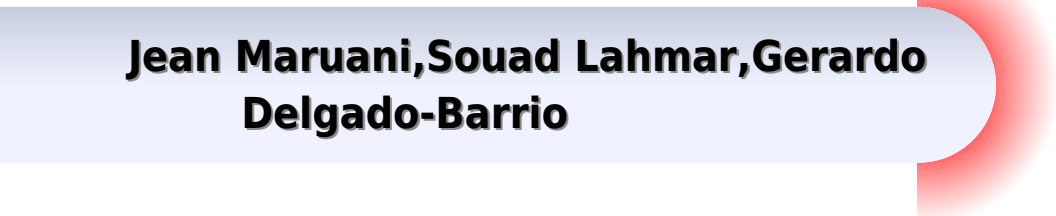
Chemical *Modelling* APPLICATIONS AND THEORY

Volume 1

senior reporter A. HINCHLIFFE

Chemical Modelling Specialist Periodical Reports

**Jean Maruani, Souad Lahmar, Gerardo
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 Stephen Wilson,Ivan Hubac,2009-12-01 Brillouin Wigner Methods for Many Body Systems gives an introduction to many body methods in electronic structure theory for the graduate student and post doctoral researcher It provides researchers in many body physics and theoretical chemistry with an account of Brillouin Wigner methodology as it has been developed in recent years to handle the multireference correlation problem Moreover the frontiers of this research field are defined This volume is of interest to atomic and molecular physicists physical chemists and chemical physicists quantum chemists and condensed matter theorists computational chemists and applied mathematicians **Chemical Modelling** Alan Hinchliffe,2008-11-19 Chemical Modelling Applications and Theory comprises critical literature reviews of molecular modelling both theoretical and applied Molecular modelling in this context refers to modelling the structure properties and reactions of atoms molecules materials Each chapter is compiled by experts in their fields and provides a selective review of recent literature With chemical modelling covering such a wide range of subjects this Specialist Periodical Report serves as the first port of call to any chemist biochemist materials scientist or molecular physicist needing to acquaint themselves of major developments in the area Volume 5 covers literature published from June 2005 to May 2007 *Aromaticity and Metal Clusters* Pratim Kumar Chattaraj,2010-10-15 Metal clusters an intermediate state between molecules and the extended solid show peculiar bonding and reactivity patterns Their significance is critical to many areas including air pollution interstellar matter clay minerals photography catalysis quantum dots and virus crystals In Aromaticity and Metal Clusters dozens of international

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