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JYRKI SCHRODERUS INTERNAL ROTATION IN SYMMETRIC TOP MOLECULES Academic Dissertation to be presented with the assent of the Faculty of Science, University of Oulu, for public

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11.2.2 Internal Rotation in Symmetric Top Molecules If the internal rotation axis is a principal axis of inertia of the whole molecule, then the angular momentum generated by the internal rotation of the top can be compensated for by a counter-rotation of the whole molecule about the same axis.

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VIBRATION-INTERNAL ROTATION INTERACTIONS IN MOLECULES

The internal rotation about the single bond connecting a cyclopropyl ring to a CH₃, SiH₃, GeH₃, NH₂, SH, or OH group was investigated. Both CCSD/cc-pVTZ and MP2/cc-pVTZ ab initio calculations were performed to predict the structures of these molecules and their internal rotation potential energy functions in terms of angles of rotation.

Internal Rotation of Methylcyclopropane and Related

Identification and treatment of internal rotation in normal mode vibrational analysis Philippe Y. Ayala and H. Bernhard Schlegel Department of Chemistry, Wayne State University, Detroit, Michigan 48202

Identification and treatment of internal rotation in normal

MOLECULAR PI-VSICS, 1993, VOL. 80, NO. 1, 177-189 The orientation of molecules with internal rotation in nematic phases By LEON C. TER BEEK, DAN S. ZIMMERMAN and E. ELLIOTT BURNELL

The orientation of molecules with internal rotation in

Structure of Molecules and Internal Rotation reviews early studies on dihalogenoethanes. This book is organized into two parts encompassing 8 chapters that evaluate the Raman effect in ethane derivatives, the energy difference between rotational isomers, and the infrared absorption of ethane derivatives.

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