

1. Record Nr.	UNINA9910968781503321
Titolo	Equilibrium molecular structures : from spectroscopy to quantum chemistry / / edited by Jean Demaison, James E. Boggs, Attila G. Csaszar ; foreword by Harry Kroto
Pubbl/distr/stampa	Boca Raton, FL, : CRC Press, c2011
ISBN	1-04-019612-8 0-429-09241-5 1-4398-1135-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (290 p.)
Classificazione	SCI013000SCI013050SCI013060
Altri autori (Persone)	DemaisonJ (Jean) BoggsJames E. <1921-> CsaszarAttila G
Disciplina	541/.22
Soggetti	Molecular structure Quantum chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Contents; Foreword; Editors; Contributors; Introduction; Principal Structures; Chapter 1. Quantum Theory of Equilibrium Molecular Structures; Chapter 2. The Method of Least Squares; Chapter 3. Semiexperimental Equilibrium Structures Computational Aspects; Chapter 4. Spectroscopy of Polyatomic Molecules; Chapter 5. Determination of the Structural Parameters from the Inertial Moments; Chapter 6. Determining Equilibrium Structures and Potential Energy Functions for Diatomic Molecules; Chapter 7. Other Spectroscopic Sources of Molecular Properties Chapter 8. Structures Averaged over Nuclear MotionsAppendix A: Bibliographies of Equilibrium Structures; Appendix B: Sources for Fundamental Constants, Conversion Factors, and Atomic and Nuclear Masses; Back cover
Sommario/riassunto	Written following a new paradigm, this textbook takes advantage of the insight of world experts who have contributed chapters and relies upon its editors to seamlessly integrate the information into a unified presentation. It covers experimental and computational techniques and

compares different methods. The book goes on to describe their interplay and the advantages of their combined use. It is not merely a review of the modern literature, but a true textbook that can be used by advanced students--
