

1. Record Nr.	UNINA9910830283803321
Autore	Kupka Hans J
Titolo	Transitions in molecular systems [[electronic resource] /] / Hans J. Kupka
Pubbl/distr/stampa	Weinheim [Germany], : Wiley-VCH, 2010
ISBN	3-527-63106-2 1-282-78446-3 9786612784460 3-527-63021-X 3-527-63022-8
Descrizione fisica	1 online resource (343 p.)
Disciplina	541.22
Soggetti	Energy levels (Quantum mechanics) Relaxation phenomena
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 (p. 313-326) and index.
Nota di contenuto	Transitions in Molecular Systems; Contents; Preface; 1 Introduction; 2 Formal Decay Theory of Coupled Unstable States; 3 Description of Radiationless Processes in Statistical Large Molecules; 4 Calculational Methods for Intramolecular Distributions I1, I2, and IN; 5 The Nuclear Coordinate Dependence of Matrix Elements; 6 Time-Resolved Spectroscopy; 7 Miscellaneous Applications; 8 Multidimensional Franck-Condon Factor; Appendices; References; Index
Sommario/riassunto	Filling the gap for a book covering vibronic, nonadiabatic and diabatic couplings as well as radiationless processes in context, this monograph compiles classic and cutting-edge work from numerous researchers into one handy source. Alongside a description of radiationless processes in statistical large molecules and calculational methods for intramolecular distributions, the authors also investigate the nuclear coordinate dependence of matrix elements. Whole chapters are devoted to the mathematical description of the lifetime and decay of a prepared states as well as miscellaneous applicati