

1. Record Nr.	UNINA9911006808103321
Autore	Schatz George C. <1949->
Titolo	Quantum Mechanics in Chemistry
Pubbl/distr/stampa	Newburyport, : Dover Publications, 2012
ISBN	0-486-13672-8 1-62198-590-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (653 p.)
Collana	Dover Books on Chemistry
Altri autori (Persone)	RatnerMark A. <1942->
Disciplina	541.2/8
Soggetti	Quantum chemistry Quantum theory Chemistry Physical Sciences & Mathematics Physical & Theoretical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Cover; Title Page; Copyright Page; Dedication; Contents; Preface; 1 Review of Basic Concepts in Quantum Mechanics; 1.1 Fundamental Definitions; 1.2 Eigenvalues and Eigenfunctions; 1.3 Approximate Methods; 1.3.1 Time-Independent Perturbation Theory; 1.3.2 Variational Theory; 1.4 Raising and Lowering Operators; 1.4.1 Harmonic Oscillator; 1.4.2 Angular Momentum Operators; 1.5 Two-Body Problems; 1.5.1 Relative-Motion Schro dinger Equation; 1.5.2 Hydrogen Atom; 1.6 Electronic Structure of Atoms and Molecules; 1.6.1 Many-Electron Hamiltonian; Born-Oppenheimer Approximation; 1.6.2 Pauli Principle Hartree-Fock Theory1.6.3 LCAO-MO-SCF; 1.6.4 Electronic Structure Methods; Bibliography for Chapter 1; Problems for Chapter 1; 2 Symmetry Considerations: Point Groups and Electronic Structure; 2.1 Group Theory for Point Groups; 2.1.1 Symmetry Operations; 2.1.2 Representations; 2.1.3 Similarity Transformations; 2.1.4 Irreducible Representations; 2.1.5 Character Tables; 2.1.6 Direct (or Tensor) Products; 2.1.7 Clebsch-Gordan Series; 2.2 Applications of Group Theory to Quantum Mechanics; 2.2.1 Symmetry-Adapted Linear Combinations; 2.2.2 Constructions of SALCs; 2.2.3 Huckel Theory

## Applications

Angular Momentum Addition3.3.1 Angular Momentum Addition;  
Clebsch-Gordan Coefficients; 3.3.2 Properties of Clebsch-Gordan  
Coefficients; 3.3.3 Worked Examples; 3.3.4 3-j and Higher Symbols;  
Bibliography for Chapter 3; Problems for Chapter 3; 4 Time-Dependent  
Quantum Mechanics; 4.1 Introduction; 4.2 Time-Dependent  
Schrodinger Equation: Basis-Set Solution; 4.3 Time-Dependent  
Perturbation Theory; 4.3.1 First-Order Time-Dependent Perturbation  
Theory; 4.3.2 Example: Collision-Induced Excitation of a Diatomic  
Molecule; 4.3.3 Second-Order Perturbation Theory  
4.3.4 Simplifications and Extensions to Higher Order4.3.5 Time-  
Ordering Operators; 4.4 Representations in Quantum Mechanics; 4.4.1  
Schrodinger Representation; 4.4.2 Heisenberg Representation; 4.4.3  
Interaction Representation; 4.5 Transition Probabilities per Unit Time;  
4.5.1 Perturbation Theory for a Constant Interaction Potential; 4.5.2  
Fermi's Golden Rule; 4.5.3 State-to-State Form of Fermi's Golden Rule;  
4.5.4 Treatment of Periodic Interactions; Bibliography for Chapter 4;  
Problems for Chapter 4; 5 Interaction of Radiation with Matter; 5.1  
Introduction; 5.2 Electromagnetic Fields  
5.2.1 Vector Potentials and Wave Equations

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### Sommario/riassunto

Intended for graduate and advanced undergraduate students, this text explores quantum mechanical techniques from the viewpoint of chemistry and materials science. Dynamics, symmetry, and formalism are emphasized. An initial review of basic concepts from introductory quantum mechanics is followed by chapters examining symmetry, rotations, and angular momentum addition. Chapter 4 introduces the basic formalism of time-dependent quantum mechanics, emphasizing time-dependent perturbation theory and Fermi's golden rule. Chapter 5 sees this formalism applied to the interaction of radiation and matt

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2. Record Nr.	UNINA9911047798703321
Autore	Pham Chi P
Titolo	Decolonizing Comparative Literature : Reading Across Southeast Asian Literatures // edited by Chi P. Pham, Jose Monfred C. Sy, Thi Nhu Trang Nguyen
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9502-77-2
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (674 pages)
Collana	Asia in Transition, , 2364-8260 ; ; 30
Disciplina	809.895
Soggetti	<p>Oriental literature</p> <p>Comparative literature</p> <p>Philosophy</p> <p>Postcolonialism</p> <p>Literature - History and criticism</p> <p>Ethnology - Asia</p> <p>Culture</p> <p>Translating and interpreting</p> <p>Asian Literature</p> <p>Comparative Literature</p> <p>Postcolonial Philosophy</p> <p>Literary Criticism</p> <p>Asian Culture</p> <p>Language Translation</p>
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>Methods of Comparison in Southeast Asian Literary and Cultural Studies -- Revisiting the Philippine Comparative Literature Experience Towards an Assertion of a SEA Disciplinary Praxis -- Writing and Thinking for Ourselves: Decolonizing Philippine Comparative Literature -- Decolonizing Comparative Literature: Reception of Southeast Asian Literature in Vietnam -- Petronilo Daroy, the Marxist Literary Tradition, and the Decolonization of Philippine Literary Scholarship -- Comparative Literature in the Philippines: Resistance, Recuperation,</p>

Affirmation -- Toward a comparative study of francophone literatures in Southeast Asia -- CompLit for All? A Study of Humanities Core Curriculums in Singapore's Liberal Art Colleges -- Mental Health Issues and Identity Formation: An Analysis of Anglophone Malaysian and Bruneian Contemporary Novels -- Poe's Wanderlust Orangutan in Annam and Siam: Troublesome Bodies and the Return of Otherness in Phm Cao Cng's "The Fingerprints on the Ceiling" and Ramjitti's "The Killer in Bang Khun Phrom" -- Chn thng hu chin – nhìn t thân phn àn bà: Trng hp Khu vn sng êm (Tan Twan Eng) và p là ni au.

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### Sommario/riassunto

This book promotes a novel and nuanced understanding of how the practices of comparative literature have engaged with the politics of nation-building in postcolonial Southeast Asia. It provides readings of Southeast Asian literatures in a comparative context, demonstrating how such readings enable texts to engage with issues connected to postcolonial nation-building across the region. Such issues include social exclusion, urbanization and environmental destruction, post-war traumas, animal narratives, migration, identity, gender, and literature, and politics. In doing so, this book moves beyond traditional comparative literature which is overwhelmingly rooted in Western literature and scholarship. To this end, it is an invitation to decolonize comparative literature as a discipline. Few studies have attempted to examine the alternative non-western literary traditions that emerge from this specific Asian region, and so this book presents a rich combination of theoretical and critical studies that contribute to advancing the discipline of comparative literature in Southeast Asian geographies. It is relevant to scholars working in Asian literature, comparative literature, and in postcolonial frameworks in philosophy and cultural studies.

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