

223 M1320 (223 D1320 )

高等物理化學(專論)二 (3 學分)

(Discussion in)Advanced Physical Chemistry (II) (3)

中文	英文
<p><u>核心教材</u></p> <p>本徵能量薛丁格方程、單粒子多維井、諧振子、狄拉克符號（期望值、測不準原理、矩陣表示）、諧振子、分子結構、角動量（克萊布斯—戈登係數、轉動矩陣）、變分法、定態微擾理論</p>	<p><u>Core materials</u></p> <p>Time-independent Schrödinger equation, particle in a box/well, rigid rotors, Dirac formalism (expectation values, uncertainty principle, matrix representation), harmonic oscillator, molecular structures, angular momentum (Clebsch-Gordan coefficients, rotation matrices), variational method, time-independent Perturbation theory</p>
<p><u>選擇性教材</u></p> <p>密度算符及矩陣、對稱（宇稱、逆時）、張量代數（維格—納埃卡特定理）、固體能帶理論、化學鍵、頻域光譜</p>	<p><u>Optional materials</u></p> <p>Density operator and matrix, symmetries (parity and time reversal), tensor algebra (Wigner-Eckart theorem), energy band theory of solids, chemical bondings, frequency domain spectroscopy</p>