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The publisher is being asked to restore access to over 500,000 books. The document contains homework solutions for Quantum Mechanics 1, which are based on the textbook "Introductory Quantum Mechanics" by Richard L. Liboff and additional solutions written by the author. The specific problems covered include: * Chapter 1: Problems 1, 4, 5, 7, 11 * Chapter 2: Problems 1(1), 1(2), 2, 3(1), 3(2) * ... (continues with a long list of specific problems and chapters) The document also includes local problem sets on various topics such as experimental foundations, time-independent Schrödinger equation, matter waves, nuclear fusion, harmonic oscillator, and more. Additionally, the document provides a summary of lectures on Quantum Mechanics, including: * Lecture 1: Classical quantum mechanics, position, energy, momentum operators * Lecture 2: Postulates of quantum mechanics, operators, eigenfunctions, eigenvalues * ... (continues with a list of lecture topics) The author's contact information is not provided in this document. Lecture Notes for a Quantum Mechanics Course The course covers essential topics in quantum mechanics, including the Cauchy-Swartz Inequality and Ehrenfest's Principle. Lectures 8-13 focus on time development of state functions, probability of measurement, and expectation values. Subsequent lectures cover continuity equations, step functions, energy barriers, and annihilation/creation operators. The course also explores 1D and N-dimensional harmonic oscillators, infinite boxes, hydrogen atoms, and angular momentum eigenvalues. Additionally, students learn about angular momentum in different coordinate systems, spherical harmonics, and solving homework problems.