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only on m2, and hence is the same for either sign, but the solution to Problem 4.39 assumed  $l+1/2 \ge 0$  (else u is not normalizable), so we need |m| here.] Quoting 4.39: E = (j.

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This textbook presents quantum
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conceptual difficulties that ual students typically have when first presented with quantum mechanics. Furthermore, because the laboratories involve studying photons, using photon polarization as a prototypical quantum system allows the Page 46/67

laboratory work to be closely integrated with the coursework. Polarization represents a twodimensional quantum system, so the introduction to quantum mechanics uses two-dimensional state vectors and operators. This allows students to become

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(particle in a box, harmonic a oscillator, hydrogen atom, etc.), and perturbation theory. The book also includes chapters which describe material that is frequently absent from undergraduate texts: quantum measurement, entanglement,

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quantum field theory and nual quantum information. This material is connected not only to the laboratories described in the text, but also to other recent experiments. Other subjects covered that do not often make their way into undergraduate Page 50/67

texts are coherence. Manual complementarity, mixed states, the density operator and coherent states. Supplementary material includes further details about implementing the laboratories, including parts lists and software for running the experiments.

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presentation, covering the quark model, Feynman diagrams, quantum electrodynamics, and gauge theories. A clear introduction to the Feynman rules, using a simple model, helps readers learn the calculational techniques without the

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