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quantum computing, and closes with a discussion of the still unresolved problem of measurement. Chapter 6 also demonstrates that thermodynamics is a straightforward consequence of quantum mechanics and that we no longer need to derive the laws of thermodynamics through the traditional, rather subtle, arguments about heat engines.

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quantum mechanics; mathematical, with a focus on the mathematical structure of quantum mechanics; physical, with a focus on physics applications and a more traditional wave mechanics approach; and historical, with a focus on historical experiments leading to the development of quantum mechanics. Each theme presents an ordered path through the material.

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mathematical framework of quantum mechanics. The concept of symmetry is now used throughout physics to explain and classify phenomena. Another important idea to emerge Paul Dirac's equation of quantum mechanics (right) predicted the existence of antimatter The first image of a positron track found in cosmic rays

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In particular, quantum techniques appear to have great potential in the ï→eld of cryptography,both in the coding and possible de-coding of messages, and I have included a chapter aimed at introducing this topic. I have also added a short chapter on relativistic quantum mechanics and introductory quantum ï→eld theory.

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