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Fundamentals of Quantum Mechanics in Liouville Space² supervectors, Sec. 3.2) and given that we are adept at solving equations of motion for vectors in state space (think of the Schrödinger equation, (18)), we can easily apply those same techniques also in Liouville space [1, 9].

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the impetus for the development of quantum mechanics. Influenced by Newton, most physicists of the 18th century believed that light consisted of particles, which they called corpuscles.

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Quantum mechanics was already an old and solidly established subject when the first edition of this book appeared in 1966. The context in which a graduate text on quantum mechanics is studied today has changed a good deal, however. In 1966, most entering physics graduate students had a quite

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Quantum Mechanics: Fundamentals | Kurt Gottfried | Springer

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Fundamentals of quantum information – Physics World

The basics of quantum mechanics 1.1 Why quantum mechanics is necessary for describing molecular properties we know that all molecules are made of atoms which. in turn. contain nuclei and electrons. As I discuss in this introductory section, the equations that govern the motions of

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electrons and of nuclei are not the familiar Newton equations.

Chapter 1 The basics of quantum mechanics

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Quantum theory originated from experiments involving

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several aspects of electromagnetic energy and matter. The study of blackbody radiation led to the idea of energy being quantized on an atomic level, which manifests itself in the line spectra of atoms. Ascribing a wave character to a moving particle led to the formulation of wave mechanics.

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In this chapter some of these salient features of quantum mechanics are discussed. The topics include the quantization of energy, wave–particle duality, the probabilistic nature of

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quantum mechanics, Heisenberg uncertainty relations, Bohr's principle of complementarity, and quantum superposition and entanglement.

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