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Quantum mechanics is the science of the very small. It explains the behavior of matter and its interactions with energy on the scale of atoms and subatomic particles. By contrast, classical physics explains matter and energy only on a scale familiar to human experience, including the behavior of astronomical bodies such as the Moon. Classical physics is still used in much of modern science and ... Quantum statistical mechanics is statistical mechanics applied to quantum mechanical systems. In quantum mechanics a statistical ensemble (probability distribution over possible quantum states) is described by a density operator S , which is a non-negative, self-adjoint, trace-class operator of trace 1 on the Hilbert space H describing the quantum system. . This can be shown under various ...

1.4 The atomic theory of matter 1 INTRODUCTION thermodynamics can explain more things about the world around us than all of the other physical theories studied in the undergraduate Physics curriculum

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