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Many of the examples are drawn from mesoscopic physics, which deals with systems small enough that quantum coherence is maintained throughout their volume and which therefore

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provides an ideal testing ground for
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1.1 Introduction: Whys and Hows of
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Integrals 13

Quantum Theory of Many-Body

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This article is about the many-body problem in quantum mechanics. For the n-body problem in classical mechanics, see n-body problem. The many-body problem is a general name for a vast category of physical problems pertaining to the properties of microscopic systems made of many interacting particles.

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Microscopic here implies that quantum mechanics has to be used to provide an accurate description of the system.

Many-body problem - Wikipedia

Formally, as will be shown later, the transition from the quantum theory for a single particle to a many-body theory can be made by replacing the wave

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functions by field operators. For electromagnetic fields this procedure would indeed correspond to a true quantization, but not in the present context.

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Standard many-body perturbation theory
The quantum-mechanical treatment of many-electron systems, based on the Schrödinger equation and the Coulomb interaction between the electrons, was developed shortly after the advent of

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quantum mechanics, particularly by John Slater in the late 1920's and early 1930's.

Relativistic Many-Body Theory - Chalmers

On the fundamental level, quantum fluctuations or entanglement lead to complex dynamical behaviour in many-

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as emergent phenomena can be found
within the...

Experimental extraction of the quantum effective action ...

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technology perspective, more on the analytical side, but always with a diversity of experimental platforms and applications in mind.

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state basis, which are constructed by filling up each single-particle state with a certain number of identical particles.

Second quantization - Wikipedia

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F. Bishop In July 2000 a conference was held to honour the 65th birthdays of four of the leading international figures in the field of quantum many-body theory.

150 Years of Quantum Many-Body Theory

This book provides a unique, self-contained introduction to nonequilibrium

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many-body theory. Starting with basic quantum mechanics, the authors introduce the equilibrium and nonequilibrium Green's function formalisms within a unified framework called the contour formalism.

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