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A large number can be anywhere from three to infinity (in the case of a practically infinite, homogeneous or periodic system, such as a crystal), although three- and four-body systems can be treated by specific means (respectively the Faddeev and Faddeev-Yakubovsky equations) and are thus sometimes separately classified as few-body systems.

### Many-body problem - Wikipedia

"Singlemindedly devoted to its job of educating potential many-particle theorists...deserves to become the standard text in the field." — Physics Today"The most comprehensive textbook yet published in its field and every postgraduate student or teacher in this field should own or have access to a copy." — EndeavorA self-contained, unified treatment of nonrelativistic many-particle systems ...

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### quantum mechanics - Fetter and Walecka's derivation of ...

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I was trying to solve the problem 3.2 from Quantum theory of many-body systems by A. Fetter and J. D. Walecka. I succeeded in the first part, obtaining the suggested formulation for the expectation value of the Hamiltonian in the non-interacting ground state.

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