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cambridge university press. as we will discuss later in the course, a superconducting quantum dot separated from a bulk superconductor by a josephson tunnel barrier can be modeled as a o(2) quantum rotor coupled to an external ▪eld $h = g 2 l^2 − hn^ x$ (1). for more information. it also contains several new chapters to cover important recent advances, such as the fermi gas near unitarity, dirac fermions, fermi liquids and their phase transitions, quantum.

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