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Nota di contenuto	Cover; The Physics of Dilute Magnetic Alloys; Title; Copyright; Contents; Preface; Translators' foreword; 1 Atoms; 1.1 Mean-field approximation and electronic configurations; 1.2 Multiplets; 1.3 Coulomb and exchange integrals; 1.4 Hartree's method; References and further reading; Note added by the translators;; 2 Molecules; 2.1 The H2+ molecule; 2.2 The H2 molecule; 2.3 The configuration interaction; 2.4 Second quantization; References and further reading; Note added by the translators;; 3 The Sommerfeld theory of metals; 3.1 Classification of solids; 3.1.1 Molecular crystals 3.1.2 Ionic crystals3.1.3 Covalent-bond crystals; 3.1.4 Metals; 3.2 The

Sommerfeld theory; References and further reading; Note added by the translators;; 4 Band theory; 4.1 The periodic structure of crystals; 4.2 Bloch's theorem; 4.3 An approach starting from the free electron picture; 4.4 The Bloch orbital as a linear combination of atomic orbitals; 4.5 Metals and insulators; 4.6 The Wigner-Seitz theory; 5 Magnetic impurities in metals; 5.1 Local charge neutrality; 5.2 The spherical representation; 5.3 Charge distribution and the density of states; 5.4 Virtual bound states
 5.5 The Anderson model I 5.6 The Anderson model II; 5.7 The Coulomb interaction: UHF; 5.8 Expansion in powers of U; 5.9 s-d interaction; 5.10 Case with orbital degeneracy; References and further reading; Further reading; 6 The infrared divergence in metals; 6.1 The Anderson orthogonality theorem; 6.2 Mahan's problem; 6.3 The thermal Green's function; 6.4 Thermal Green's functions in the presence of local potentials; 6.5 The partition function in the s-d problem; 6.6 The Nozieres-de Dominicis solution; 6.7 Calculation of the partition function; 6.8 A scaling approach
 References and further readingNote added by the translators;; 7 Wilson's theory; 7.1 Wilson's Hamiltonian; 7.2 Perturbative expansions; 7.3 Numerical calculations: scaling; 7.4 Susceptibility and specific heat; References and further reading; 8 Exact solution to the s-d problem; 8.1 A one-dimensional model; 8.2 The three-body problem; 8.3 Symmetric groups; 8.4 The N-electron problem; 8.5 Antisymmetrization; 8.6 The eigenvalue problem; 8.7 The integral equation; 8.8 The ground state; 8.9 Susceptibility; 8.10 Universality; 8.11 The excited states; 8.12 Free energy; 8.13 Specific heat
 References and further reading9 Recent developments; 9.1 The spin-flip rate; 9.2 The heavy electrons; 9.3 Quantum dots; References and further reading; Appendices; Appendix A: Matrix elements between Slater determinants; Appendix B: Spin function for N-electron systems; Appendix C: Fourier expansion of three-dimensional periodic functions; Appendix D: Proof of eq. (5.29); Appendix E: Relations between Green's functions; Appendix F: Expansion of free energy to order J^2 ; Appendix G: Calculation of g_{\pm} ; Appendix H: Feynman's theorem; Appendix I: Elimination of adjacent pairs
 Appendix J: Proof of eq. (6.80)

Sommario/riassunto

Available for the first time in English, this classic text by Jun Kondo describes the Kondo effect thoroughly and intuitively. Its clear and concise treatment makes this book of interest to graduate students and researchers in condensed matter physics. The first half of the book describes the rudiments of the theory of metals at a level that is accessible for undergraduate students. The second half discusses key developments in the Kondo problem, covering topics including magnetic impurities in metals, the resistance minimum phenomenon, infrared divergence in metals and scaling theory, including Wilson's renormalization group treatment and the exact solution by the Bethe ansatz. A new chapter has been added covering advances made since the Japanese edition was published, such as the quantum dot and heavy fermion systems.

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