



Zero-Range Potentials and Their Applications in Atomic Physics

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Springer Mrz 2012, 2012. Taschenbuch. Book Condition: Neu. 254x178x16 mm. This item is printed on demand - Print on Demand Neuware - Inhaltsangabe1 Basic Principles of the Zero-Range Potential Method.- 1.1 Introduction.- 1.2 Formulation of the Method.- 1.3 The One-Center Problem and Its Simple Applications.- 1.4 Separable Potentials and Scattering of Slow Electrons by Atoms.- 2 Trajectories of the Poles of the S-Matrix and Resonance Scattering.- 2.1 Preliminary Remarks.- 2.2 Trajectories of the Zeros of the Jost Function for $\epsilon = 0$.- 2.3 The S-Matrix in a Two-Pole Approximation.- 2.4 The Case of 0 and Perturbation Theory for a Bound State Close to the Continuum.- 2.5 Trajectories of the Poles of the S-Matrix in the Case of ZRP and Separable Potentials.- 3 Zero-Range Potentials for Molecular Systems. Bound States.- 3.1 Many-Center Problems without External Fields.- 3.2 Potential Curves for a Two-Center System and Some Applications.- 3.3 Analytic Properties of the Potential Curves and Trajectories of the Poles of the S-Matrix.- 3.4 Perturbation Theory in the Presence of an External Electric Field.- 3.5 Perturbation Theory in the Presence of an External Magnetic Field.- 3.6 Solution of the Schrödinger Equation with the Help of ZRPs.- 4 Scattering by a System of Zero-Range Potentials...



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