



Theory of Adiabatic Potential and Atomic Properties of Simple Metals

V G Baryakhtar, E V Zarotchentsev, E P Troitskaya

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The contemporary ideas about the theory of atomic properties of metals are reviewed in this book. This theory is based upon concepts of pseudopotential and interacting electrons and is used for quantitative description of the whole complex of atomic properties of perfect simple metals.

The authors have tried to maintain the consonance of the theoretical description of metal properties with computer experiment. A well-advanced theory with many new developments is presented, as well as simple and well-known theoretical approaches necessary for computer calculation. The background of the theory of atomic properties of crystals is addressed alongside the theory of pseudopotential form-factor in metals and the linear screening theory.

This book will be useful for specialists in the theory and computer simulation of properties of solids.



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