

Electron and molecular phenomena on the surface of solid states

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Systematically examines results of investigation of electronic and molecular processes on the surfaces of solid states, taking place at their interaction with particles of gas environment or in the course of superficial alloying by atoms of metals. The main subject is analysis of interaction of semiconductors with foreign atoms and molecules from gas environment and from beams of elements, bombarding a surface.

Basic concepts and positions, used at the description of interaction of semiconductor surface with foreign atoms and molecules. Demonstration of opportunities arising from the usage of local and collective approaches to the analysis of electronic and molecular processes on a surface is useful though insufficiently full and determining the sensitivity for adsorption of semiconductor's surface.