DESCRIPTION

In eight volumes, *Surface and Interface Science* covers all fundamental aspects and offers a comprehensive overview of this research area for scientists working in the field, as well as an introduction for newcomers.

**Volume 5: Solid-Gas Interfaces I**

Topics covered:

- Basics of Adsorption and Desorption
- Surface Microcalorimetry
- Adsorption of Rare Gases
- Adsorption of Alkali and Other Electro-Positive Metals
- Halogen adsorption on metals
- Adsorption of Hydrogen
- Adsorption of Water
- Adsorption of (Small) Molecules on Metal Surfaces
- Surface Science Approach to Catalysis
Adsorption, Bonding and Reactivity of Unsaturated and Multifunctional Molecules

Volume 6: Solid-Gas Interfaces II

Topics covered:

Adsorption of Large Organic Molecules
Chirality of Adsorbates
Adsorption on Semiconductor Surfaces
Adsorption on Oxide Surfaces
Oscillatory Surface Reactions
Statistical Surface Thermodynamics
Theory of the Dynamics at Surfaces
Atomic and Molecular Manipulation

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