

# Solids And Surfaces A Chemist S View Of Bonding In Extended Structures

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## **Solids and Surfaces: A Chemist's View of Bonding in ...**

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Starting from the language that all chemists are comfortable with - that of molecular orbitals - Hoffman builds up the idea of bonding in extended structures (solids) as if a solid was just a giant molecule. This is done with a minimum of mathematics, mostly using simple and graphical representation.

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Solid state chemistry is important, alive, and growing.! So is surface science. A surface-be it of metal, an ionic or covalent solid, a semiconductor-is a form of matter with its own chemistry. In its

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By Roald Hoffmann. Wiley-VCH, 1989. 152 pages, ISBN: 978-0-471-18710-3 This short and very readable text explains the basic tools of band theory for extended solids beginning from a chemist's description of molecular orbital theory.

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A surface-be it of metal, an ionic or covalent solid, a semiconductor-is a form of matter with its own chemistry. In its structure and reactivity, it will bear resemblance to other forms of matter: bulk, discrete molecules in the gas phase and various aggregated states in solution.

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Chemists have contributed a great deal to the advance of our knowledge of both the solid state and the behaviour of

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molecules at surfaces. They have provided new methods of synthesis of materials, discovered new and fascinating structures and attempted to tailor make materials with

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## **Oby - Defense Technical Information Center**

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Solids and Surfaces: A Chemist's View of Bonding in Extended Structures Roald Hoffmann The book begins with the language of

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crystal orbitals, band structures and densities of states.

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