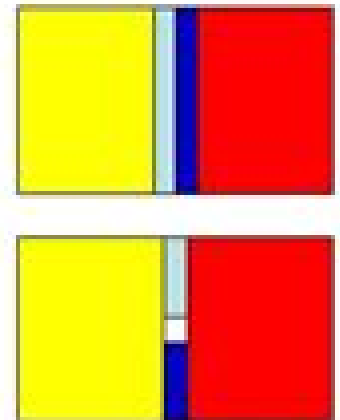
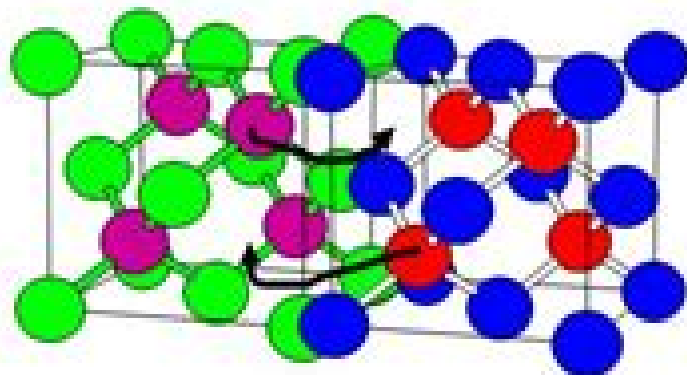


## REACTIVITY OF SOLIDS - SUPERFICIALLY SIMPLE, INTRINSICALLY COMPLEX

- $\text{CdS} + \text{ZnO} \rightarrow \text{CdO} + \text{ZnS}$
- Classical ion exchange or metathesis reactions
- Look very simple on paper but in practice actually extremely complicated
- Consider contact of zinc blende type reagents with dominant cation mobility (size, charge, Schottky/Frenkel substitutional/interstitial cation diffusion ideas)



# Reactivity Of Solids

**Jicheng Xie**



## Reactivity Of Solids:

Treatise on Solid State Chemistry N. Hannay, 2012-12-06 The last quarter century has been marked by the extremely rapid growth of the solid state sciences They include what is now the largest subfield of physics and the materials engineering sciences have likewise flourished And playing an active role throughout this vast area of science and engineering have been very large numbers of chemists Yet even though the role of chemistry in the solid state sciences has been a vital one and the solid state sciences have in turn made enormous contributions to chemical thought solid state chemistry has not been recognized by the general body of chemists as a major subfield of chemistry Solid state chemistry is not even well defined as to content Some for example would have it include only the quantum chemistry of solids and would reject thermodynamics and phase equilibria this is nonsense Solid state chemistry has many facets and one of the purposes of this Treatise is to help define the field Perhaps the most general characteristic of solid state chemistry and one which helps differentiate it from solid state physics is its focus on the chemical composition and atomic configuration of real solids and on the relationship of composition and structure to the chemical and physical properties of the solid Real solids are usually extremely complex and exhibit almost infinite variety in their compositional and structural features *Reactivity of Solids*

Krystyna Dyrek, Jerzy Haber, Janusz Nowotny, 1982 **Reactivity of Solids** International Union of Pure and Applied Chemistry, 1996 1E 1976 Discus Treatise on Solid State Chemistry Norman Bruce Hannay, 1976 REACTIVITY OF SOLIDS, 1961 *The Control of the Reactivity of Solids* Vladimir Viacheslavovich Boldyrev, M. Bulens, Bernard Delmon, 1979 *REACTIVITY OF SOLIDS (Volume 4 of Treatise on Solid State Chemistry)*. NB Hannay (Ed), 1976 **New**

**Directions in Solid State Chemistry** C. N. R. Rao, J. Gopalakrishnan, 1997-02-28 In the new edition of this widely praised textbook all the chapters have been revised and the authors have brought the work completely up to date by the addition of new material on numerous topics In recent years solid state chemistry has emerged as a very important element of mainstream chemistry and materials science Students teachers and researchers need to understand the chemistry of solids because of the crucial role this plays in determining the properties of materials An understanding of solid state chemistry is also essential in materials design and many fascinating relationships between the structure and properties of solids have been discovered by chemists This text requires only an understanding of basic physics chemistry and crystallography and is enhanced with the most recent examples case studies and references It will be of value to advanced students and researchers studying solid state chemistry and materials science as a text and reference work *Proceedings of the International Symposium on the Reactivity of Solids*, 1969 **Reactivity of Solids** Norman Bruce Hannay, 1976 *Reactivity of Solids*, 1961 **The Control of the Reactivity of Solids** Vladimir Viacheslavovich Boldyrev, Bernard Delmon, 1979

**Principles of Solid State Chemistry** Petr Petrovich Budnikov, Arkadii Mikhailovich Ginstling, 1968 Reactivity of solids International Symposium on the R, 1954 **The Reactivity of Solids**, 1965 **Reactivity of Solids**, 1961

**Reactions and Characterization of Solids** Sandra E. Dann, 2000 This book is designed as an introductory text with plenty of illustrative examples to reinforce the essentials of the topic      **Reactivity of Solids** K Dyrek (Ed), 1982

Reactivity of Solids: Proceedings of the Sixth International Symposium... Schenectady, New York, U.s.a., August, 25-30, 1968, Held Under the Auspices of the Physical Chemistry Section of the International Union of Pure and Applied Chemistry  
International symposium on the reactivity of solids, 6th (schenectady, 1968),      *Reactivity of Solids* JH de-Boer (Ed-in-Chief), 1961

## Reviewing **Reactivity Of Solids**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Reactivity Of Solids**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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