



Defects in the Alkaline
Earth Oxides: With
Applications to Radiation
Damage and Catalysis

Alkaline earth oxides

Note: This is not the actual book cover

Defects In The Alkaline Earth Oxides

Robert Jaffee



Defects In The Alkaline Earth Oxides:

Defects in the Alkaline Earth Oxides Brian Henderson (F. Inst. P.),1977 **Defects in the Alkaline Earth Oxides**
B. Henderson,John Edward Wertz,1977 Defects in the Alkaline Earth Oxides with Applications to Radiation Damage and
Caralysis B. Henderson,1977 Defects in the Alkaline Earth Oxides with Applicatins to Radiation Damage and Catalysis B.
Henderson,John E. Wertz,1977 Defects and Their Origin in Thin Films of (001) Alkaline Earth Oxides ,1995 **Defects**
and Transport in Oxides Robert Jaffee,2013-11-21 DEFECTS AND TRANSPORT IN OXIDES is the proceedings of the
eighth Battelle Colloquium in the Materials Sciences held in Columbus and Salt Fork Ohio September 17 22 1973 It took as
its theme the relationship between defects and transport of both mass and charge in oxides Applications of defect controlled
transport to a number of important processes in oxides also were covered In selecting this topic the Organizing Committee
thought that 1973 was timely to bring together the leading theoretical and experimental researchers in the oxide transport
field to review its status in a critical way and to consider current major research directions and how research in the future
might be guided into fruitful areas The meeting was highlighted by the presentation of several papers which suggest that
major advances in our understanding of transport in oxides appear to be imminent These papers dealt with the results of new
theoretical approaches whereby the energies and configurations of defects may be calculated and with new experimental
techniques for indirectly observing these defects previously thought to be below the limits of experimental resolving power
Other papers dealing with the application of defect chemistry to technological processes served to demonstrate the successes
and to point out yet unresolved problems associated with ix x PREFACE understanding the chemistry of imperfect crystals

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Arthur Catlow,1988 This text provides an up to date coverage of the theoretical and experimental tools required for
fundamental studies of point defects with illustrative examples from a wide range of inorganic materials On the experimental

side a strong emphasis is placed on the powerful resonance and hyperfine methods which give detailed information on defect structures Theoretical chapters cover statistical and quantum mechanical methods particularly the computer simulations techniques which are now widely employed The examples of applications of defect properties highlight the benefits of a controlled inclusion of defect properties for modern advanced technologies This work provides coverage of the theoretical tools required for defect study putting strong emphasis on the wide range of experimental techniques needed for analysis Particular attention has been given to the powerful resonance and hyperfine methods which often give more detailed data than classical methods

Kinetics of Geochemical Processes Antonio C. Lasaga, R. James Kirkpatrick, 1981 Volume 8 of Reviews in Mineralogy deals with both descriptions of the kinetics of geochemical processes the phenomenological and the atomistic The former relies on macroscopic variables e g temperature or concentrations to describe the rates of

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