

Protective Oxide Scales and Their Breakdown

By Michael SchÃ¼tze

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This volume by Michael Schutze, a world leader in this area of research, is the first volume to be published in the series. The formation of oxide layers is one of the most important areas of corrosion science and the author brings together for the first time in an English language text, work which has, until now, remained scattered. Contents: Basic Requirements for the Protective Action of Oxide Scales; Development of Oxide Scales in High Temperature Technology; Mechanical Stresses in Oxide Scales and their Causes; Deformation Behaviour and Deformation Mechanisms in Oxides; Damage to the Oxide Scale Resulting from Mechanical Stresses; Healing of Oxide Scale Damage; Depletion by Oxidation and Crack Healing of Alloying Elements forming Protective Scales. This book is invaluable for researchers working on the formation and behaviour of oxide layers, for those working on the storage, transport and use of corrosive materials and for industrial chemists, engineers, defence and materials scientists. The Institute of Corrosion and Wiley Series on Corrosion and Protection provides compelling volumes on the science and engineering technology of corrosion and protection. The volumes cover the whole range of knowledge and experience in the field from basic teaching texts at the undergraduate or practising technologist level to state-of-the-art volumes for postgraduates and experienced corrosion engineers. All volumes in the series are reviewed and endorsed by the Institute of Corrosion ensuring their accuracy and technical excellence are to the highest standard.

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Editorial Review

Language Notes
Text: English (translation)
Original Language: German

From the Publisher
Oxide layers are often the result of corrosion in metals - for instance, rust forming on iron, but they are also used as protective coatings. The behaviour of oxide layers under different conditions is therefore of great importance to corrosion scientists. This book brings together all aspects of mechanical failure of protective oxide scales.

From the Back Cover
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