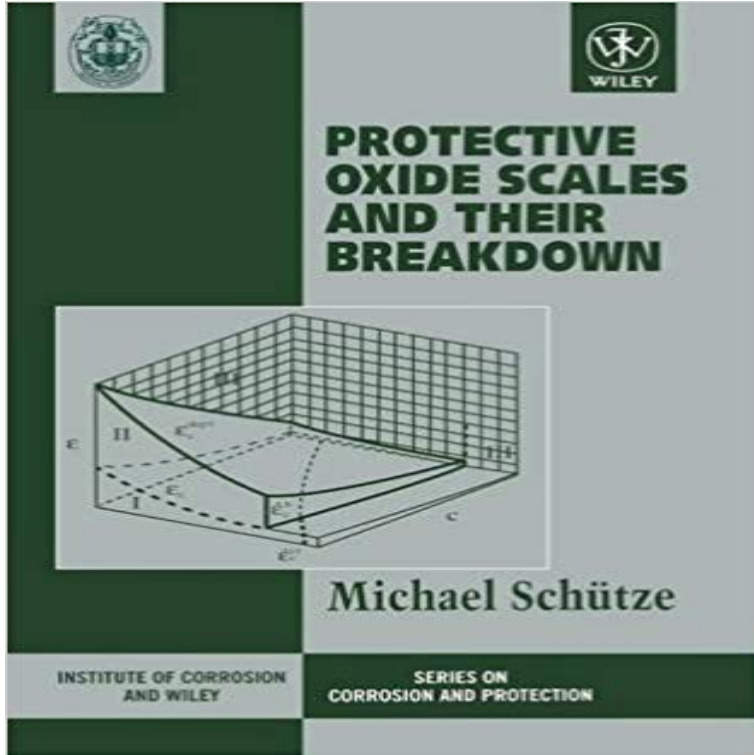


Protective Oxide Scales and Their Breakdown



This volume by Michael Schütze, 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.

1. Introduction. Maintaining good adhesion of the protective oxide layer on the . of minor elements in both steels was controlled to make sure their concentrations .. After 73 cycles, a complete breakdown of the oxide scale for alloy AISI 303Protective Oxide Scales and Their Breakdown (Innbundet) av forfatter Michael Schütze. Teknologi, transport og landbruk. Pris kr 3 249. Se flere boker fraProtective oxide scales and their breakdown / Michael Schütze edited by D.R.

