

High Temperature Oxidation And Corrosion Of Metals - David John Young

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The book is concerned with understanding the fundamental mechanisms of high temperature alloy oxidation. It uses this understanding to develop methods of predicting oxidation rates and the way they change with temperature, gas chemistry and alloy composition. The focus is on designing (or selecting) alloy compositions which provide optimal resistance to attack by corrosive gases. • Emphasises quantitative calculations for predicting reaction rates and the effects of temperature, oxidant activities and alloy compositions. • Uses phase diagrams and diffusion paths to analyse and interpret scale structures and internal precipitation distributions • Provides a detailed examination of corrosion in industrial gases (water vapour effects, carburisation and metal dusting, sulphidation) • Text is well supported by numerous micrographs, phase diagrams and tabulations of relevant thermodynamic and kinetic data • Combines physical chemistry and materials science methodologies

Author: Young, David John Publisher: Elsevier Science Illustration: N Language: ENG Title: High Temperature Oxidation and Corrosion of Metals Pages: 00592 (Encrypted EPUB) / 00574 (Encrypted PDF) On Sale: 2008-10-03 SKU-13/ISBN: 9780080445878 Category: Technology & Engineering : Material Science Category: Technology & Engineering : Metallurgy Category: Technology & Engineering : Chemical & Biochemical

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