

High-Temperature Corrosion of Engineering Alloys

G. Y. Lai



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This extensive materials selection and application book is the first of its kind. It describes a comprehensive treatment of all forms of high temperature corrosion problems encountered in industry, especially gas turbine and aerospace, heat treating, mineral and metallurgical processing, ceramic, electronic and glass manufacturing, automotive pulp and paper waste incineration fossil fuel power generation coal gasification nuclear. Materials problems discussed include those due to oxidation, carburization and metal dusting nitridation, halogen corrosion, sulfidation, ash/salt deposit corrosion (e.g. hot corrosion, fuel ash corrosion, etc.), molten salt corrosion and molten metal corrosion. This single source contains an exhaustive corrosion database with a total of 101 tables and 169 figures, eliminating the need for conducting a time-consuming literature search. This book is a must for solving high temperature corrosion problems and learning about corrosion reactions of various high temperature corrosion modes. Contents: Methods of Testing and Evaluation Oxidation Carburization and Metal Dusting Nitridation Corrosion by Halogen Sulfidation Ash/Salt Deposit Corrosion - Molten Salt Corrosion Molten Metal Corrosion.

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