



Corrosion Mechanisms in Theory and Practice, Third Edition (Corrosion Technology)

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Updated to include recent results from intensive worldwide research efforts in materials science, surface science, and corrosion science, **Corrosion Mechanisms in Theory and Practice, Third Edition** explores the latest advances in corrosion and protection mechanisms. It presents a detailed account of the chemical and electrochemical surface reactions that govern corrosion as well as the link between microscopic forces and macroscopic behavior.

Revised and expanded, this edition includes four new chapters on corrosion fundamentals, the passivity of metals, high temperature corrosion, and the corrosion of aluminum alloys. The first half of the book covers basic aspects of corrosion, such as entry of hydrogen into metals, anodic dissolution, localized corrosion, stress corrosion cracking, and corrosion fatigue. Connecting the theoretical aspects of corrosion mechanisms to practical applications in industry, the second half of the text discusses corrosion inhibition, atmospheric corrosion, microbially induced corrosion, corrosion in nuclear systems, corrosion of microelectronic and magnetic data-storage devices, and organic coatings.

With contributions from leading academic and industrial researchers, this bestselling book continues to provide a thorough understanding of corrosion mechanisms—helping you solve existing corrosion challenges and prevent future problems.

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