



Corrosion Science and Technology, Second Edition (Materials Science & Technology)

David E.J. Talbot, James D.R. Talbot

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Despite their efforts, industries continue to lose millions of dollars every year to the destructive effects of corrosion on both structures and equipment. A large part of the problem is that diagnosing its causes and developing strategies to avoid corrosion depend on the application of principles drawn from a broad spectrum of physical sciences not typically encountered in engineering and other technical disciplines associated with industrial production.

While continuing to fully explain the basic principles needed to understand corrosion science, this new edition of **Corrosion Science and Technology** has been updated and expanded to present the very latest technologies and strategies for limiting costly metal degradation caused by corrosion. Written by respected experts who possess an understanding of the sciences involved as well as experience with the development of corrosion control methods, this volume describes the chemistry, electrochemistry, physics, and metallurgy of various types of metals, and evaluates numerous protection measures and surface treatments.

New to the Second Edition

- New chapters that examine the corrosion resistance of copper, nickel, titanium, and their respective alloys
- An entire chapter devoted to the expanded discussion of cathodic protection by impressed current and sacrificial anodes
- Extended coverage of the equipment used in the medicine, power generation, and marine environments
- Additional case histories and recently employed real-world applications

Exploring corrosion control methods used in an expanded variety of commercial enterprises including aviation, automobile manufacturing, food processing, and building construction, this practical guide presents proven and cost-effective methods that industrial engineers can call upon to better protect material assets.

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