



# Surface Engineering for Wear and Resistance (Matsci)

*J. R. Davis*

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## **Surface Engineering for Wear and Resistance (Matsci) J. R. Davis**

Engineers are faced with a bewildering array of choices when selecting a surface treatment for a specific corrosion or wear application. This book provides practical information to help them select the best possible treatment. An entire chapter is devoted to process comparisons, and dozens of useful tables and figures compare surface treatment thickness and hardness ranges; abrasion and corrosion resistance; processing time, temperature, and pressure; costs; distortion tendencies; and other critical process factors and coating characteristics. The chapter 'Practical Guidelines for Surface Engineering' describes hands-on approaches for matching surface treatments with design and performance requirements. The book includes the content from an Institute of Materials design guide publication, combined with information from several ASM Handbook volumes and other ASM and industry sources. All the material has been carefully organized, edited, and rewritten as needed to provide a comprehensive, up-to-date, and user-friendly guide to the subject. Contents: Introduction; Principles of Corrosion; Principles of Friction and Wear; Surface Engineering to Change the Surface Metallurgy; Surface Engineering to Change the Surface Chemistry; Surface Engineering to Add a Layer or Coating; Process Comparisons; Practical Design Guidelines for Surface Engineering; Glossary; Index.

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