1. Record Nr. UNINA9910449730203321

Titolo	Surface engineering for corrosion and wear resistance [[electronic resource] /] / edited by J.R. Davis
Pubbl/distr/stampa	Materials Park, OH, : ASM International, : IOM Communications, c2001
ISBN	1-61503-072-7 1-907747-66-4 1-59124-963-5
Descrizione fisica	1 online resource (288 p.)
Altri autori (Persone)	DavisJ. R (Joseph R.)
Disciplina	620.1/1223
Soggetti	Corrosion and anti-corrosives Mechanical wear Surfaces (Technology) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"IOM book no. B751."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Preface; CHAPTER 1: Introduction to Surface Engineering for Corrosion and Wear Resistance; CHAPTER 2: Principles of Corrosion; CHAPTER 3: Principles of Friction and Wear; CHAPTER 4: Surface Engineering to Change the Surface Metallurgy; CHAPTER 5: Surface Engineering to Change the Surface Chemistry; CHAPTER 6: Surface Engineering to Add a Surface Layer or Coating; CHAPTER 7: Process Comparisons; CHAPTER 8: Practical Design Guidelines for Surface Engineering; Glossary; Index
Sommario/riassunto	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 Engin