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Variables Influencing Abrasive Particle Contact; V. Concluding Remarks; References; Chapter 6. Fretfing; I. Introduction; II. Effect of Variables; III. Fretting in Aqueous Electrolytes; IV. Mechanism of Fretting Wear; V. Preventive Measures; VI. Conclusion; References; Chapter 7. Erosion Caused by Impact of Solid Particles; I. Introduction; II. Types of Erosion Test; III. Aerodynamic Effects; IV. The Impacting Particles; V. The Impact Parameters
VI. The Target MaterialVII. Mechanisms of Erosion; List of Symbols; References; Chapter 8. Rolling Contact Fatigue; I. Introduction; II. Theoretical Considerations; III. Material Requirements for Rolling Elements; IV. Effect of Load and Geometry on Rolling Contact Fatigue; V. Effect of Material Properties on Rolling Contact Fatigue; VI. Effect of the Lubricant on Rolling Contact Fatigue; VII. Effect of Environment; VIII. Effect of Temperature; IX. Mechanism of Failure; X. Failure Detection; References; Chapter 9. Wear Resistance of Metals; I. Introduction; II. Wear in Industry
III. Surface Treatments Used to Reduce WearReferences; Chapter 10. Wear of Metal-Cutting Tools; I. Introduction; II. Metal-Cutting Operations; III. Descriptive Treatment of Tool Wear Phenomena; IV. Conditions at the Tool/Work Interface; V. Cutting Tool Wear; VI. Interfacial Layers; VII. Other Tool Materials; References; Index

Sommario/riassunto

Treatise on Materials Science and Technology, Volume 13: Wear provides a state of the art review of wear to form a basis for all future work on the subject and to be a standard work for all in the field. The book discusses the theories of wear and their significance for engineering practice; the wear of polymers; and the wear of carbons and graphites. The text also describes scuffing with regard to its physical manifestations, its importance in practice, theoretical interpretations advanced to describe and explain its occurrence. Abrasive wear; fretting; erosion caused by impact of solid parti