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Sb2 S3: A paradigm for all metal sulfides in brake applications; 6.5 Synergy between sulfides and abrasives; References; Chapter 7: Carbon materials; 7.1 Introduction; 7.2 Natural graphite; 7.3 Amorphous graphite; 7.4 Natural flake graphite; 7.5 Vein graphite; 7.6 Synthetic graphite; 7.7 Coke
7.8 Friction behavior of carbon materialsReferences; Chapter 8: Abrasives, ceramic, and inorganic materials; 8.1 Introduction; 8.2 Aluminum oxide; 8.3 Zirconium silicate and garnets; 8.4 Magnesium oxide; 8.5 Calcium carbonate; 8.6 Titanates; 8.7 Silicon carbide; 8.8 Clays and aluminosilicates; 8.9 Barium sulfate: Barite; 8.10 Abrasive wear; 8.10.1 Hardness effect; 8.10.2 Shape and size effects; 8.11 Nanopowders; References; Chapter 9: Metals; 9.1 Introduction; 9.2 Steel fibers and iron powders; 9.3 Copper and copper alloys
9.4 Thermal diffusivity and other thermal properties9.5 Friction of metals in air; 9.5.1 Metal transfer; 9.6 Metals in railway brakes; References; Chapter 10: Binders and organic materials; 10.1 Introduction; 10.2 PF resins; 10.3 Cross-linking agents; 10.4 Cross-linking kinetics; 10.4.1 Fast-curing resins; 10.5 Thermal decomposition of PF; 10.6 Boron and phosphorus modified PF resins; 10.7 Molecular weight; 10.7.1 Statistics of molecular polymer weights; 10.7.2 The Flory distribution; 10.8 Phosphorus acid phase separation; 10.9 Friction powder
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