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Nota di contenuto	Nanolubricants; Contents; Preface; List of Acronyms; 1 Colloidal Lubrication; 1.1 Stability of Colloids Dispersed in a Base Oil; 1.2 Lubrication by Micellar Systems; 1.3 Lubrication by Metallic Nanoparticles; 1.4 Colloids Embedded in a Coating; References; 2 Nanoparticles Made of Metal Dichalcogenides; 2.1 Tribological Properties of 2H-MoS2; 2.2 IF-MoS2 and IF-WS2 Fullerene-like Nanoparticles; 2.3 IF-MoS2 and IF-WS2 as Additives in Boundary Lubrication; 2.3.1 IF-MoS2; 2.3.2 IF-WS2; 2.3.3 Other Fullerenes; 2.4 NT-MoS2 and NT-WS2 Nanotubes as Lubricant Additives 2.5 Lubrication by a Mixture of Fullerenes2.6 Tribological Properties of Mo-S-I Nanowires; 2.6.1 Influence of the Nanowire Concentration in PAO on the Tribological Properties; 2.7 Raman Tribometry on IF-MS2;

Sommario/riassunto

The technology involved in lubrication by nanoparticles is a rapidly developing scientific area and one that has been watched with interest for the past ten years. Nanolubrication offers a solution to many problems associated with traditional lubricants that contain sulphur and phosphorus; and though for some time the production of nanoparticles was restricted by the technologies available, today synthesis methods have been improved to such a level that it is possible to produce large quantities relatively cheaply and efficiently. Nanolubricants develops a new concept of lubrication,