

Contact Mechanics And Friction Physical Principles And Applications

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Contact Mechanics And Friction Physical

This application-oriented book introduces readers to the associations and relationships between contact mechanics and friction, providing them with a deeper understanding of tribology. It addresses the related phenomena of contacts, adhesion, capillary forces, friction, lubrication, and wear from a consistent point of view.

Contact Mechanics and Friction: Physical Principles and ...

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Contact Mechanics and Friction: Physical Principles and ...

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(PDF) Contact Mechanics and Friction: Physical Principles ...

Contact Mechanics and Friction - Physical Principles and Applications | Valentin L. Popov | Springer. Presents the most important methods and results in the field of tribology and related fields. Shows many applications in different scales from micro to mega and in different fields: contact, adhesion, seals, capillarity, lubrication, friction, and abrasion of elastic, plastic and visco-elastic bodies.

Contact Mechanics and Friction - Physical Principles and ...

Contact Mechanics and Friction: Physical Principles and Applications. Valentin L. Popov (auth.) This application-oriented book introduces readers to the associations and relationships between contact mechanics and friction, providing them with a deeper understanding of tribology. It addresses the related phenomena of contacts, adhesion, capillary forces, friction, lubrication, and wear from a consistent point of view.

Contact Mechanics and Friction: Physical Principles and ...

The English edition of "Contact Mechanics and Friction" lying before you is, for st the most part, the text of the 1 German edition (Springer Publishing, 2009). The book was expanded by the addition of a chapter on frictional problems in ear- quake research. Additionally, Chapter 15 was supplemented by a section on elasto-hydrodynamics. The problem sections of several chapters were ...

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Contact Mechanics and Friction | SpringerLink

Contact mechanics is the study of the deformation of solids that touch each other at one or more points. This can be divided into compressive and adhesive forces in the direction perpendicular to the interface, and frictional forces in the tangential direction. Frictional contact mechanics is the study of the deformation of bodies in the presence of frictional effects, whereas frictionless ...

Frictional contact mechanics - Wikipedia

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Contact Mechanics and Friction: Physical Principles and ...

Frictional contact mechanics is discussed separately. Normal stresses are caused by applied forces and by the adhesion present on surfaces in close contact even if they are clean and dry. Contact mechanics is part of mechanical engineering.

Contact mechanics - Wikipedia

The book "Contact Mechanics and Friction: Physical Principles and Applications" is written by a theoretical physicist but from the point of view of an engineer.

Review of "Contact Mechanics and Friction: Physical ...

Contact Mechanics and Friction : Physical Principles and Applications. [Valentin L Popov] -- This application-oriented book introduces the associations between contact mechanics and friction and with it offers a deeper understanding of tribology.