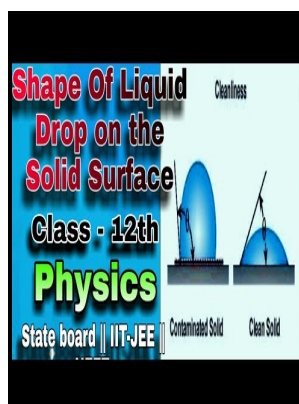


# Solid surface physics

Springer-Verlag - newtonian mechanics



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## Determination of the surface energy of a solid

In addition to its use in describing equilibrated systems, thermodynamics provides us with the information needed to understand the evolution of surfaces under far from equilibrium conditions Blakely and Mykura, 1962; Bonzel et al.

## Solid

This involves friction and wear when solids rub against other solids such as in mechanical bearings and the effect of liquids such as 'lubricants' and other fluids.

## Solid Surfaces

Thus to achieve this angle mercury forms a drop as shown. The free electron model gave improved predictions for the heat capacity of metals, however, it was unable to explain the existence of.

## Pressure

In the case of a glass mercury interface, the angle of contact is obtuse. On a conceptual level, a deep understanding of friction, from atomic through to macroscopic level, is quite complex and involves looking at the interaction of electrons eg: van der Waals bonds in liquids and how energy is propagated through an 'atomic lattice'. Such measurements not only confirm the existence of equilibration, but provide a wealth of atomic-scale information about rates and mechanisms.

## Bernoulli's Equation

It is not the intent of this paper to give an overview of this discipline; instead, the reader is referred to classic textbooks, for example, Twidale 1976, Bloom 1991, Summerfield 1991, and Easterbrook 1999.

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Quantitative data can also be obtained by using a variety of different models. Repeating this with a liquid with no acid component, such as tetrahydrofuran, gives Equation 13: Equation 13: The reduced form of the Oss-Good model where a liquid with no acidic component is used.

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