

Friction, the force resisting the relative motion of solid surfaces, is influenced by several factors: 1. It's generally lower than static friction because once motion starts, it's easier to maintain. Understanding these factors helps in controlling and minimizing friction in various applications, from engineering to everyday life. ****Surface roughness****: Rougher surfaces create more friction than smoother ones because of increased contact points between surfaces. These factors affect the different types of friction:

- ****Static friction****: This type of friction occurs when two surfaces are not moving relative to each other.
- ****Kinetic friction****: This friction occurs between surfaces in motion relative to each other. It's generally lower than sliding friction due to the reduced area of contact.

2.3.4.