

## **FRICIONAL EFFECTS ON FINGERTIP FORCES**

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Friction is produced due to interaction between two objects/surfaces. The dexterity with which we hold/grasp objects is primarily due to the frictional forces. Thonnard et al., concluded that friction plays a significant role in the discriminatory touch. This paper reviews on the effects on friction on the fingertips and methods used to compute the same. The Amonton's laws of friction is taken to be one of the basic aspects in determining and computing friction coefficient. Friction coefficient was measured for different materials such as rayon, silk, polyester, sandpaper, etc. It has been found that sandpaper is widely used due to the accurate friction value it produces. As the friction reduces, the precision in handling objects also reduces. The main objective in reviewing this paper is to summarise the methods of computing friction and to study the effects of different materials in contact between fingertips and the object.

