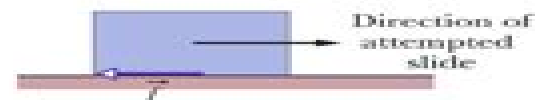


**FRICTION:**

Friction is the force that opposes the relative motion or attempted motion of two objects in contact with each other.

- A frictional force  $f$  is the force on a body when the body slides or attempts to slide along a surface.
- The force is always parallel to the surface and directed so as to oppose the sliding.
- Friction can either impede or enable motion, depending on the circumstances.



**Figure:** A frictional force  $f$  opposes the attempted slide of a body over a surface.

- **Static friction:** exists when the frictional force is negligible.

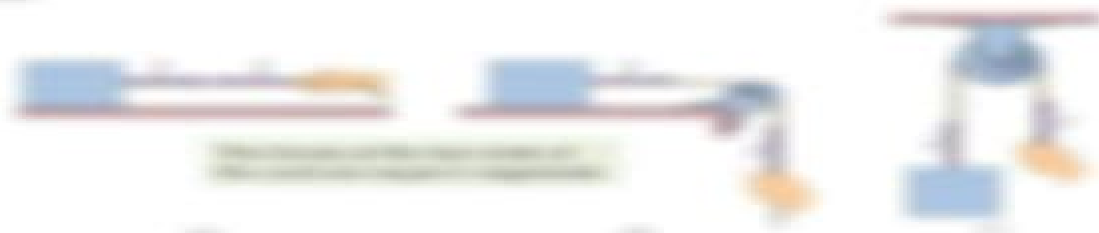
**Static**

Friction is different in the sense represented through a rope, string or wire which perfectly transmits forces without being supported itself.

- It acts along the length of the rope/string and is negligible for representing the magnitude of the tension by pointing in the direction of stretching or contracting accordingly.

When a rope/string is rigid, i.e., an other such object is attached to a body and pulled from the end, the rope pulls on the body with a force directed along the rope and along the stretching, i.e.,

- The force is either called a tension force because the rope is pulled from the ends and is under tension, which means that it is being pulled apart.
- The tension in the rope is the magnitude  $T$  of the force on the body.
- The weight of the force on the body from the rope has magnitude  $T \cos \theta$ , the tension in the rope is  $2T \sin \theta$ .



- A rope/string supports the tension depending on what is negligible compared to the body's weight and mass accordingly.
- The rope/string is called as a continuous tension force.
- It pulls on both bodies with the same force magnitude  $T$ , away from the bodies and the rope is supporting and most of the rope/string is directed in direction perpendicular to the string.
- Both supports has negligible mass compared to the bodies and negligible friction on the ends supporting its tension.
- If the rope/string supports several weights, as in fig. (c), the net force on the pulley from the rope has the magnitude  $2T$ .

# Mysteries Of Motion Part 2 Of 2

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**The Sacred Books of the East: Pahlavi texts, pt. 2**, 1882      **Top Secret Book on Vedic Astrology Part 2** Saket Shah, 2020-05-23 With my experience in astrology I am discussing below topics Research on Wealth and wealth giving nakshatras in horoscope Page 4 Research on Retrograde Planet Page 10 Research on Ascendant Page 33 Research on Dasamsa Page 41 Research on Vimshottari Dasha System Page 57 Secret Energy of Nakshatra Padas Page 67 Effects of Ascendant in Nakshatras Page 112      [The Key to the Secret, Part 2: The Nexus](#),      [Catalog of Copyright Entries. Part 1. \[B\] Group 2. Pamphlets, Etc. New Series](#) Library of Congress. Copyright Office, 1921      *About Catherine de' Medici: pt. 1. The Calvinist martyr. pt. 2. The Ruggieri's secret. pt. 3. The two dreams* Honoré de Balzac, 1900      [National Library of Medicine Audiovisuals Catalog](#) National Library of Medicine (U.S.),      **Clarinet Secrets** Michele Gingras, 2004-04 Clarinet Secrets contains concepts that have been repeatedly and successfully used with students over a period of 20 years of teaching Each strategy is explained on two facing pages with accompanying graphics photos and musical examples

**Theological Works: Miscellaneous works: [pt. 1] Final judgment; [pt. 2] The white horse; [pt. 3] Earths in the universe; [pt. 4] Summary exposition** Emanuel Swedenborg, 1907      *Mystery Fanfare* Michael L. Cook, 1983 This work is a composite index of the complete runs of all mystery and detective fan magazines that have been published through 1981 Added to it are indexes of many magazines of related nature This includes magazines that are primarily oriented to boys book collecting the paperbacks and the pulp magazine hero characters since these all have a place in the mystery and detective genre      **King Henry VI, part 1. King Henry VI, part 2. King Henry VI, part 3. King Richard III. King Henry VIII. Troilus and Cressida. Timon of Athens. Coriolanus. Julius Caesar. Antony and Cleopatra. Cymbeline. Titus Andronicus. Pericles. King Lear. Romeo and Juliet. Hamlet. Othello. Glossary** William Shakespeare, 1829

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**Technical Abstract Bulletin** Defense Documentation Center (U.S.),1964     **Library of Congress Catalogs** Library of Congress,1975     **Barnaby Rudge. Sketches. pt.2** Charles Dickens,1874     **Audiovisual Guide to the Catalog of the Food and Nutrition Information and Educational Materials Center** Food and Nutrition Information and Educational Materials Center (U.S.),1975     The Moving Picture World ,1916

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