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Mechanical engineering

Question 1

Dry friction or Coulomb is the force of friction between two solid surfaces in contact, example Antifriction bearings, which have to operate without a liquid lubricant will experience high wear and friction.

Wet friction exists when the rubbing parts have some other substance between them such as oil or grease, example it is used in moving parts

Question 2

Wedge

A wedge is a triangular shaped tool, and is a portable inclined plane. It can be used to separate two objects or portions of an object, lift up an object, or hold an object in place.

Square threaded screw

The square thread form is a common screw thread form, used in high load applications such as leadscrews and jackscrews. It gets its name from the square cross-section of the thread. It is the lowest friction and most efficient thread form, but it is difficult to fabricate.

Journal bearings

Journal bearings are one of the most common types of hydrodynamic bearings. Their primary purpose is to support a rotating shaft. They are used in various subsystems in engines and power trains.