Design of Levers : Hand Lever, Foot Lever, Bell crank lever

Submitted by sameerengr on Sat, 07/09/2022 - 16:13

Design of levers

Key points to remember regarding design of levers :

- **the design of levers is all about finding the dimensions of the levers so that it could perform its function satisfactorily**
- **A lever is force multiplier, depending upon the location of the load and effort from the fulcrum point.**
- **Levers are classified on the basis of location of load, effort and fulcrum point.**

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Turnbuckle design : Design steps, Problems and Question

Submitted by sameerengr on Sat, 07/09/2022 - 16:12

Turnbuckle Design: Diagram, Steps and Numericals

Turnbuckle design introduction

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Cotter Joint : Design Procedure,Problems and Question answer

Submitted by Anonymous (not verified) on Sat, 07/09/2022 - 16:10

Cotter joint Design Procedure

Cotter Joint Introduction

Cotter joint is demonstrated in figure below.Before going into detailed steps to design and find dimensions of cotter joint, it is necessary to understand clearly the various components, their functions and assembly of cotter joint. Here is the exploded view of cotter joint.

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Machine Design -I -Design of joints : Theory Q&A

Submitted by sameerengr on Sat, 07/09/2022 - 16:08

Machine Design I

Design of Joints : Knuckle Joint, Cotter Joint and Turn Buckle

The article contains the questions and answers related to the design of joints including knuckle joint, turn buckle and Cotter joint. It includes the various applications of the joints and also the comparison of the joints.

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Lever Design: Hand Lever, Foot Lever, Bell crank lever

Submitted by sameerengr on Sat, 07/09/2022 - 14:47

Lever design basics

Lever design Key points to remember regarding design of levers :

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Knuckle Joint : Design Procedure,Problems and Questions

Submitted by sameerengr on Sat, 07/09/2022 - 13:00

Knuckle Joint : Steps in Design

Complete detailed steps for designing of the knuckle joint along with diagrams and numerical problems

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Introduction to Machine Design : Theory Q&A

Submitted by sameerengr on Sat, 07/09/2022 - 12:58

Introduction to Machine Design

Introduction to machine design theory questions and answers.

Introduction to Machine Design chapter theory questions and answer are given below.

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1) State the general design consideration in machine design.

General Considerations in Machine Design

Following are the general considerations in designing a machine component :

1. Type of load and stresses caused by the load.

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Compare flywheel with Governer.

Difference between Flywheel and Governor
FLYWHEEL
GOVERNOR
1.Function- To control the speed variations 1.Function- To regulate the mean speed of
caused by fluctuations of engine turning engine within prescribed limit when there
moment during a cycle. are variations of load.
2. Flywheel acts as a reservoir; it stores 2. A governor regulates the speed by
energy due to its mass moment of inertia regulating the quantity of charge/working
and releases energy when required during a fluid of prime mover.

cycle.

Draw the sketch of multiplate clutch and describe its construction and working.

Multi – Plate clutch consists of a number of clutch plates instead of only one clutch plate like in
the Single plate clutch.
Friction surface also increased because of a number of clutch plates. Because of number of
friction surfaces, the capacity of the clutch to transmit torque is also increased.
The plates are alternately fitted to the engine crankshaft and gearbox shaft. They are firmly
pressed by strong coil springs and assembled in a drum type casing.

Two Pulleys one 450 mm diameter and other 200 mm diameter are on parallel shaft is 1.95 apart and are connected by cross-belt drive. Find the length of belt required and angle of contact between the belt and each pulley. What power can be transmitted by

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