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## Brakes Clutches Design

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 17:07

### **Brakes Clutches Design Key points to remember :**

Brakes clutches are very important components in a mechanical system

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## Optimum Design Theory Questions, Answers, Numericals

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 17:06



Optimum Design : Theory Questions, Answers,  
Numerical Problems

**Optimum design related key Notes to remember**

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## I.C.Engine components design : Theory Q&A

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 17:05

### **Key Points to remember**

- Internal combustion is the most widely used prime mover which converts heat energy in the fuel into mechanical energy in the form of rotation. An internal combustion engine consists of several parts, the machine design deals with applying the basic principles to key parts such as Cylinder and cylinder liners, Piston, piston rings, piston pin, connecting rod, big and small end bearings, crankshafts etc.

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## Pressure vessel Design: Theory Q&A and Numerical Problems

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 17:04

## Key Points to Remember

- A Pressure vessel is defined as a container pipeline which is used for storing carrying fluids under pressure
- An unfired Pressure vessel is defined as a container or pipeline which is used for storing carrying steam, gases or liquid at a pressure above atmospheric pressure.

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## Design of cylinders : Theory Q&A and Numerical Problems

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 17:03

### KEY POINTS TO REMEMBER

- A cylinder is said to be 'THIN' if the ratio of its inner diameter to the thickness of wall is more than 20. And when it below 20 then it is termed as thick cylinder.
- A thin cylinder is subjected to two principal stresses, Circumferential stresses (along circumference) and longitudinal stress (along length).

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## Material handling system design : Theory Q&A and Problems

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 17:02

### **Important Points to Remember**

- The objective of material handling system the moment of materials from one point to another point within the plant
- The material handling system consists of three activities one picking up the material second transporting the load and third sitting down the load
- A good material handling system should have, accuracy in low transportation, low operating and initial cost, easy to operate and maintain, and it should give operational safety.

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## Statistics in design : Theory Q&A and Numerical Problems

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 17:00

### **Key Points to remember :**

- Population refers to the whole group of apparently identical parts or components which are under consideration of statistical analysis.
- Sample is the small portion of the population that is randomly selected from the population for evaluation purpose.
- Variable refers to the characteristic under consideration of each

part or component.

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## Machine tool gearbox Design: Theory Q&A and Numerical problems

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 17:00

### **Theory Questions and Answers**

**Q.1. What is the function of gearbox in a machine tool? or What is the need of a multispeed gearbox in a machine tool or automobile?**

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## Rolling contact bearing : Theory Q&A and Numerical Problems

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 16:58

### **Kye points :**

- **Bearing is a mechanical element whose function is to support two machine parts and which permits relative motion between them with minimum friction.**

- **Bearings are classified on the basis of nature of contact as Sliding contact bearings and Rolling contact bearings.**
- **Rolling contact bearings are further classified as Ball bearings and roller bearing.**

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## Sliding Contact Bearings : Theory Q&A

Submitted by [sameerengr](#) on Sat, 07/09/2022 - 16:57

## **Theory Questions and Answers on Sliding Contact Bearings**

**Q.1. State the Assumptions made in Petroff's equation. Derive the Petroff's equation. Also state the limitations of Petroff's equation.**

Ans :

Petroff equation is used to determine the coefficient of friction in hydrodynamic bearing, it is based on following **assumptions**,

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