

### Experiment no. 6

**Aim :** To Design a connecting rod.

**Function:** The main function of the connecting rod is to transmit the push and pull from the piston pin to crank pin. In many cases its secondary function is to convey the lubricating oil from the bottom end to the top end i.e. from the crank pin to the piston pin and then for splash of jet cooling of piston crown.

**Materials:** The materials for connecting rods range from mild or medium carbon steels to alloy steel. For high speed engines the connecting rods may also be made of duralumin and aluminium alloys

**Shape of connecting rod:** I and H sections are most common sections used for connecting rod



Fig. 6.1 Connecting Rod

### Stresses in connecting rod

The various forces acting on the on connecting rod are

1. The combined effect of gas pressure on the piston and inertia of the reciprocating parts
2. Friction of piston rings and that of piston.
3. Inertia of connecting rod.
4. The friction of two end bearings i.e. piston pin bearing and crank pin bearing.

# Mechanical Design Lab Manual

**AW Chickering**



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## **Table of Contents Mechanical Design Lab Manual**

1. Understanding the eBook Mechanical Design Lab Manual
  - The Rise of Digital Reading Mechanical Design Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Design Lab Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical Design Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Design Lab Manual
  - Personalized Recommendations

- Mechanical Design Lab Manual User Reviews and Ratings
- Mechanical Design Lab Manual and Bestseller Lists
- 5. Accessing Mechanical Design Lab Manual Free and Paid eBooks
  - Mechanical Design Lab Manual Public Domain eBooks
  - Mechanical Design Lab Manual eBook Subscription Services
  - Mechanical Design Lab Manual Budget-Friendly Options
- 6. Navigating Mechanical Design Lab Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Mechanical Design Lab Manual Compatibility with Devices
  - Mechanical Design Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Design Lab Manual
  - Highlighting and Note-Taking Mechanical Design Lab Manual
  - Interactive Elements Mechanical Design Lab Manual
- 8. Staying Engaged with Mechanical Design Lab Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Design Lab Manual
- 9. Balancing eBooks and Physical Books Mechanical Design Lab Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Design Lab Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Design Lab Manual
  - Setting Reading Goals Mechanical Design Lab Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Design Lab Manual
  - Fact-Checking eBook Content of Mechanical Design Lab Manual

- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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