

## Module 5: Hydraulic Systems

### Lecture 1

#### Introduction

##### 1. Introduction

The controlled movement of parts or a controlled application of force is a common requirement in the industries. These operations are performed mainly by using electrical machines or diesel, petrol and steam engines as a prime mover. These prime movers can provide various movements to the objects by using some mechanical attachments like screw jack, lever, rack and pinions etc. However, these are not the only prime movers. The enclosed fluids (liquids and gases) can also be used as prime movers to provide controlled motion and force to the objects or substances. The specially designed enclosed fluid systems can provide both linear as well as rotary motion. The high magnitude controlled force can also be applied by using these systems. This kind of enclosed fluid based systems using pressurized incompressible liquids as transmission media are called as hydraulic systems. The hydraulic system works on the principle of Pascal's law which says that the pressure in an enclosed fluid is uniform in all the directions. The Pascal's law is illustrated in figure 5.1.1. The force given by fluid is given by the multiplication of pressure and area of cross section. As the pressure is same in all the direction, the smaller piston feels a smaller force and a large piston feels a large force. Therefore, a large force can be generated with smaller force input by using hydraulic systems.

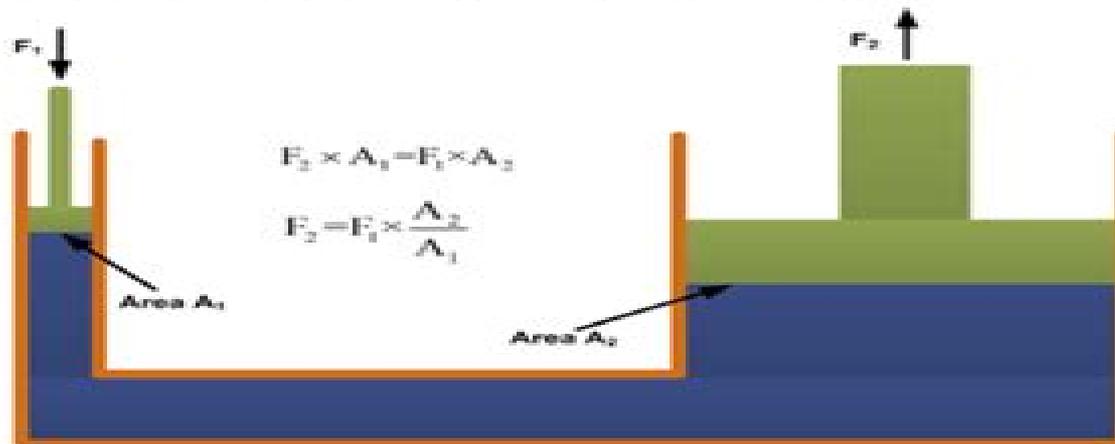


Figure 5.1.1 Principle of hydraulic system

# Module 5 Hydraulic Systems Lecture 1 Introduction

**Karin Nielsen-Saines**



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### **Table of Contents Module 5 Hydraulic Systems Lecture 1 Introduction**

1. Understanding the eBook Module 5 Hydraulic Systems Lecture 1 Introduction
  - The Rise of Digital Reading Module 5 Hydraulic Systems Lecture 1 Introduction
  - Advantages of eBooks Over Traditional Books
2. Identifying Module 5 Hydraulic Systems Lecture 1 Introduction
  - 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 Module 5 Hydraulic Systems Lecture 1 Introduction
  - User-Friendly Interface
4. Exploring eBook Recommendations from Module 5 Hydraulic Systems Lecture 1 Introduction
  - Personalized Recommendations

- Module 5 Hydraulic Systems Lecture 1 Introduction User Reviews and Ratings
- Module 5 Hydraulic Systems Lecture 1 Introduction and Bestseller Lists
- 5. Accessing Module 5 Hydraulic Systems Lecture 1 Introduction Free and Paid eBooks
  - Module 5 Hydraulic Systems Lecture 1 Introduction Public Domain eBooks
  - Module 5 Hydraulic Systems Lecture 1 Introduction eBook Subscription Services
  - Module 5 Hydraulic Systems Lecture 1 Introduction Budget-Friendly Options
- 6. Navigating Module 5 Hydraulic Systems Lecture 1 Introduction eBook Formats
  - ePub, PDF, MOBI, and More
  - Module 5 Hydraulic Systems Lecture 1 Introduction Compatibility with Devices
  - Module 5 Hydraulic Systems Lecture 1 Introduction Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Module 5 Hydraulic Systems Lecture 1 Introduction
  - Highlighting and Note-Taking Module 5 Hydraulic Systems Lecture 1 Introduction
  - Interactive Elements Module 5 Hydraulic Systems Lecture 1 Introduction
- 8. Staying Engaged with Module 5 Hydraulic Systems Lecture 1 Introduction
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Module 5 Hydraulic Systems Lecture 1 Introduction
- 9. Balancing eBooks and Physical Books Module 5 Hydraulic Systems Lecture 1 Introduction
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Module 5 Hydraulic Systems Lecture 1 Introduction
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Module 5 Hydraulic Systems Lecture 1 Introduction
  - Setting Reading Goals Module 5 Hydraulic Systems Lecture 1 Introduction
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Module 5 Hydraulic Systems Lecture 1 Introduction
  - Fact-Checking eBook Content of Module 5 Hydraulic Systems Lecture 1 Introduction

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- 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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