

# FLUID MECHANICS

## 1. FLUID MECHANICS

- The liquids and gases together are termed as fluids, in other words, we can say that the substances which can flow are termed as fluids.
- We assume fluid to be incompressible (i.e., the density of liquid is independent of variation in pressure and remains constant) and non-viscous (i.e. the two liquid surfaces in contact are not exerting any tangential force on each other).

### 1.1 Fluid Statics

#### 1.1.1 Fluid Pressure

Pressure  $p$  at every point is defined as the normal force per unit area.

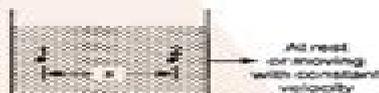
$$p = \frac{dF_{\perp}}{dA}$$

The SI unit of pressure is the Pascal and  $1 \text{ Pascal} = 1 \text{ N/m}^2$

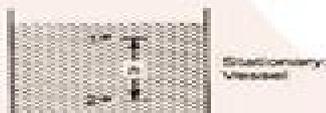
- Fluid force acts perpendicular to any surface in the fluid, no matter how that surface is oriented. Hence pressure, has no intrinsic direction of its own, it is a scalar.

#### Pressure

- (a) Pressure at two points in a horizontal plane or at same level when the fluid is at rest or moving with constant velocity is same.



- (b) Pressure at two points which are at a depth separation of  $h$  when fluid is at rest or moving with constant velocity is related by the expression



$p_2 - p_1 = \rho gh$ , where  $\rho$  is the density of liquid.

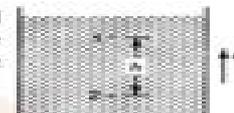
- (c) Pressure at two points in a horizontal plane when fluid container is having some constant horizontal acceleration are related by the expression



$$p_1 - p_2 = \rho a$$

and  $\tan \theta = a/g$ , where  $\theta$  is the angle which the liquid's free surface is making with horizontal.

- (d) Pressure at two points within a liquid at vertical separation of  $h$  when the liquid container is accelerating up are related by expression



$$p_2 - p_1 = \rho(g + a)h$$

If container is accelerating down, then  $p_2 - p_1 = \rho(g - a)h$ .

#### 1.1.2 Atmospheric Pressure

- It is the pressure of the earth's atmosphere. Normal atmospheric pressure at sea level (an average value) is 1 atmosphere (atm) that is equal to  $1.013 \times 10^5 \text{ Pa}$ .
- The excess pressure above atmospheric pressure is called gauge pressure, and total pressure is called absolute pressure.
- Barometer is a device used to measure atmospheric pressure while U-tube manometer or simply manometer is a device used to measure the gauge pressure.

#### 1.1.3 Pascal's Law

- A change in the pressure applied to an enclosed fluid is transmitted undiminished to every portion of the fluid and to the walls of the containing vessel.
- There are a lot of practical applications of Pascal's law one such application is hydraulic lift.

#### 1.1.4 Archimedes Principle

- When a body is partially or fully dipped into a fluid, the fluid exerts contact force on the body. The resultant of all these contact forces is called buoyant force (upthrust).
- $F =$  weight of fluid displaced by the body.
- This force is called buoyant force and acts vertically upwards (opposite to the weight of the body) through the centre of gravity of the displaced fluid.

$$F = V\rho g$$

where,  $v =$  volume of liquid displaced

$\rho =$  density of liquid.

# Mechanical Operations Lecture Notes

**Henry Adams**



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**Recent Advances in Operations Management and Optimization** Anish Sachdeva, Kapil Kumar Goyal, Rajiv Kumar Garg, J. Paulo Davim, 2024-03-19 The book presents the select proceedings of International Conference on Production and Industrial Engineering CPIE 2023. It covers the current and latest research methods for development and implementation of operation. Various topics covered include selection of designing parameters, decisions related to conditions of optimum process, operation parameters, facilities planning and management, transportation and supply chain management, quality engineering, reliability and maintenance, product design and development, human factors and ergonomics, project management, service system and service management, waste management, sustainable manufacturing and operations. The book is useful for researchers and professionals working in manufacturing, industrial engineering, systems engineering, and production engineering.

**Advances in Condition Monitoring of Machinery in Non-Stationary Operations** Giorgio Dalpiaz, Riccardo Rubini, Gianluca D'Elia, Marco Cocconcelli, Fakhher Chaari, Radoslaw Zimroz, Walter Bartelmus, Mohamed Haddar, 2013-10-05 This book presents the processing of the third edition of the Condition Monitoring of Machinery in Non-Stationary Operations CMMNO13, which was held in Ferrara, Italy. This yearly event merges an international community of researchers who met in 2011 in Wroclaw, Poland and in 2012 in Hammamet, Tunisia, to discuss issues of diagnostics of rotating machines operating in complex motion and/or load conditions. The growing interest of the industrial world on the

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Recent Trends in Mechanical Engineering G. S. V. L. Narasimham,A. Veeresh Babu,S. Sreenatha Reddy,Rajagopal Dhanasekaran,2020-01-11 This book comprises select peer reviewed proceedings from the International Conference on Innovations in Mechanical Engineering ICIME 2019 The volume covers current research in almost all major areas of mechanical engineering and is divided into six parts i automobile and thermal engineering ii design and optimization iii production and industrial engineering iv material science and metallurgy v nanoscience and nanotechnology and vi renewable energy sources and CAD CAM CFD The topics provide insights into different aspects of designing modeling manufacturing optimizing and processing with wide ranging applications The contents of this book can be of interest to researchers and professionals alike

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