

Chapter 1

Introduction

1.1 What is Mechanics?

Mechanics may be defined as that branch of physical science which is concerned with the study of resultant effect of action of forces on bodies, both in the state of rest and in motion.

Mechanics is subdivided into three branches; Mechanics of Rigid Bodies, Mechanics of Deformable Bodies and Mechanics of Fluids.

In this book we shall study Mechanics of Rigid Bodies. In Rigid Body Mechanics bodies are assumed to be perfectly rigid i.e. there is no deformation of bodies under the action of loads to which they are subjected. Though the engineering structures and machines do deform under the action of loads, their deformation is so little that it does not affect the conditions of equilibrium or equations of motion which are applied in their study. Study of Mechanics of Rigid Bodies forms a basis for the study of other two branches i.e. Mechanics of Deformable Bodies and Mechanics of Fluids. It is therefore a basic subject in engineering study.

Mechanics of Rigid Bodies is further subdivided into Statics and Dynamics. Statics deals with bodies at rest. Study of forces on a building structure, bridges, transmission towers, etc falls under Statics. Dynamics on the other hand deals with bodies in motion e.g. a moving car, rotation motion of ship's propeller, rocket in motion, motion of a piston, etc.

1.2 Historical Background

The study of mechanics was developed very early in history. Early contributions were made by Aristotle (384 – 322 B.C) and Archimedes (287 – 212 B.C). In his writings, Aristotle dealt with the principle of lever which enables one to lift heavy objects with comparatively lesser force. At that age the requirements of engineering were mainly confined to construction work. It is therefore not surprising that the study of motion of bodies on inclined plane, lifting of loads by use of lever and pulleys have been recorded in ancient writings. On the other hand Archimedes established the phenomenon of Buoyancy.

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