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Let us define the position vector $r(x,y,z) = x\mathbf{i} + y\mathbf{j} + z\mathbf{k}$ (11.13) We can construct the three unit vectors using the following formula: $\mathbf{i} = \frac{\partial r}{\partial x}$, $\mathbf{j} = \frac{\partial r}{\partial y}$, $\mathbf{k} = \frac{\partial r}{\partial z}$ (11.14) that is, the unit vectors are the direction of change of the position with respect to the coordinates.

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(Prepared by Mehrdad Negahban, Spring 2003)

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the Physical Sciences Archimedes (287-212 BC):
Principles of Lever and Buoyancy! Mechanics is a
branch of the physical sciences that is concerned with
the state of rest or motion of bodies subjected to the
action of forces. Rigid-body Mechanics ME101 Statics
Dynamics Deformable-Body Mechanics, and

ME 101: Engineering Mechanics

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Elements of Equilibrium: 1: Course ...

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Statics under rigid body mechanics deals with the body equilibrium under action of forces even when the body is either at rest or moving with the constant velocity. Dynamics under rigid body mechanics deals with the motion of bodies.

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1 Lecture 1: Statics | equilibrium of a particle 1.1

Introduction This lecture deals with forces acting on a particle which does not move, i.e. is in equilibrium. The important concept is the resolution of forces to obtain

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the equations determining equilibrium.

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1. Statics and 2. Dynamics. **STATICS**. It is that branch of Engineering Mechanics, which deals with the forces and their effects, while acting upon the bodies at rest. **DYNAMICS**. It is that branch of Engineering Mechanics, which deals with the forces and their effects, while acting upon the bodies in motion. The subject of Dynamics may be further sub-divided into the following two branches : 1.

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Lecture Notes

Lecture 6 Integral Mass Balance; Lecture 7 Integral Momentum Balance; Lecture 8 Integral Energy Balance; Lecture 9 Bernoulli Equation; Lecture 10 Bernoulli Applications; Lecture 11 Exam Review; Lecture ...

ChE 374 Fluid Mechanics Lecture Notes

Statics is typically the first engineering mechanics course taught in university-level engineering programs. It is the study of objects that are either at rest, or moving with a constant velocity. Statics is important in the development of problem solving skills. It teaches you to think about how forces and bodies act and react to one another.

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