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Let us define the position

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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: $\mathbf{e}_x =$

$\frac{1}{r} \frac{\partial r}{\partial x} \mathbf{i}$

$\mathbf{e}_y = \frac{1}{r} \frac{\partial r}{\partial y} \mathbf{j}$

$\mathbf{e}_z = \frac{1}{r} \frac{\partial r}{\partial z} \mathbf{k}$

(11.14) that is, the unit
vectors are the direction
of change of the
position with respect to
the coordinates.

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mechanics deals with
the motion of bodies.

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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.

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The important concept is the resolution of forces to obtain the equations determining equilibrium.

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1. Statics and 2.

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forces and their effects,
while acting upon the
bodies at rest.

DYNAMICS. It is that
branch of Engineering
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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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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

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solving skills. It teaches you to think about how forces and bodies act and react to one another.

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