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1.1 ENGINEERING MECHANICS It is the science which deals with the physical state of rest or motion of bodies under the action of forces. Depending upon the nature of the body involved, it can be further divided into mechanics of rigid bodies, mechanics of deformable bodies (also called strength of materials) and the

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Statics is the branch of mechanics that is concerned with the analysis of loads (force and torque, or "moment") acting on physical systems that do not experience an acceleration ( $a=0$ ), but rather, are in static equilibrium with their environment. The application of Newton's second law to a system gives:  $\Sigma \mathbf{F} = m\mathbf{a}$ . Where bold font indicates a vector that has magnitude and direction.

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