



Mechanics of Solids for GTU (III-MECH-2013 course)

By H.J. Sawant

Technical Publications 0. Softcover. Book Condition: New. First edition. Introduction Definition of space, Time, Particle, Rigid body, Deformable body, Force, Types of forces, Characteristics of a force, System of forces, Composition and resolution of forces. Fundamental principles of mechanics : Principle of transmissibility, Principle of superposition, Law of gravitation, Law of parallelogram of forces. Fundamentals of Statics Coplanar concurrent and non-concurrent force system : Resultant, Equilibrant, Free body diagrams. Coplanar concurrent forces : Resultant of coplanar concurrent force system by analytical and graphical method, Law of triangle of forces, Law of polygon of forces, Equilibrium conditions for coplanar concurrent forces, Lami`s theorem. Application of these principles. Coplanar non-current forces : Moments and couples, Characteristics of moment and couple, Equivalent couples, Force couple system, Varignon`s theorem, Resultant of non-concurrent forces by analytical method and graphical method, Equilibrium conditions of coplanar non-concurrent force system, Application of these principles. Applications of Fundamentals of Statics Statically Determinate Beams : Types of loads, Types of supports, Types of beams ; Determination of support reactions, Relationship between loading, Shear force and bending moment, Bending moment and shear force diagrams for beams subjected to only three types of loads : i) Concentrated loads ii) Uniformly distributed loads...



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