

# 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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