



Mechanical Science for Technicians: Volume 1

Ian McDonagh

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Mechanical Science for Technicians, Volume 1, Second Edition focuses on the understanding of mechanical engineering and analytical approaches to solutions of problems involving deformation of materials, dynamics, and fluid flow.

The monograph first elaborates on stress, strain, elasticity, and shear force and bending moment and stress. Discussions focus on the relationship between bending stress and external bending moment, assumptions made in the simple theory of bending, geometrical properties of plane sections, stress and strain in composite bars, and the effect of temperature change on composite bars. The manuscript then takes a look at the torsion of circular shafts, including torsion of hollow circular shafts, shear stress and angle of twist, and the relationship between shear stress and external torque.

The text examines angular motion, kinetic energy, simple oscillations, and fluids in motion. Topics include pressure, kinetic, and potential energy, effect of approach velocity on flow through an orifice, oscillations of a simple pendulum, rotational or angular kinetic energy, and equations of uniform angular motion.

The monograph is a valuable reference for engineers and researchers interested in mechanical engineering.



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