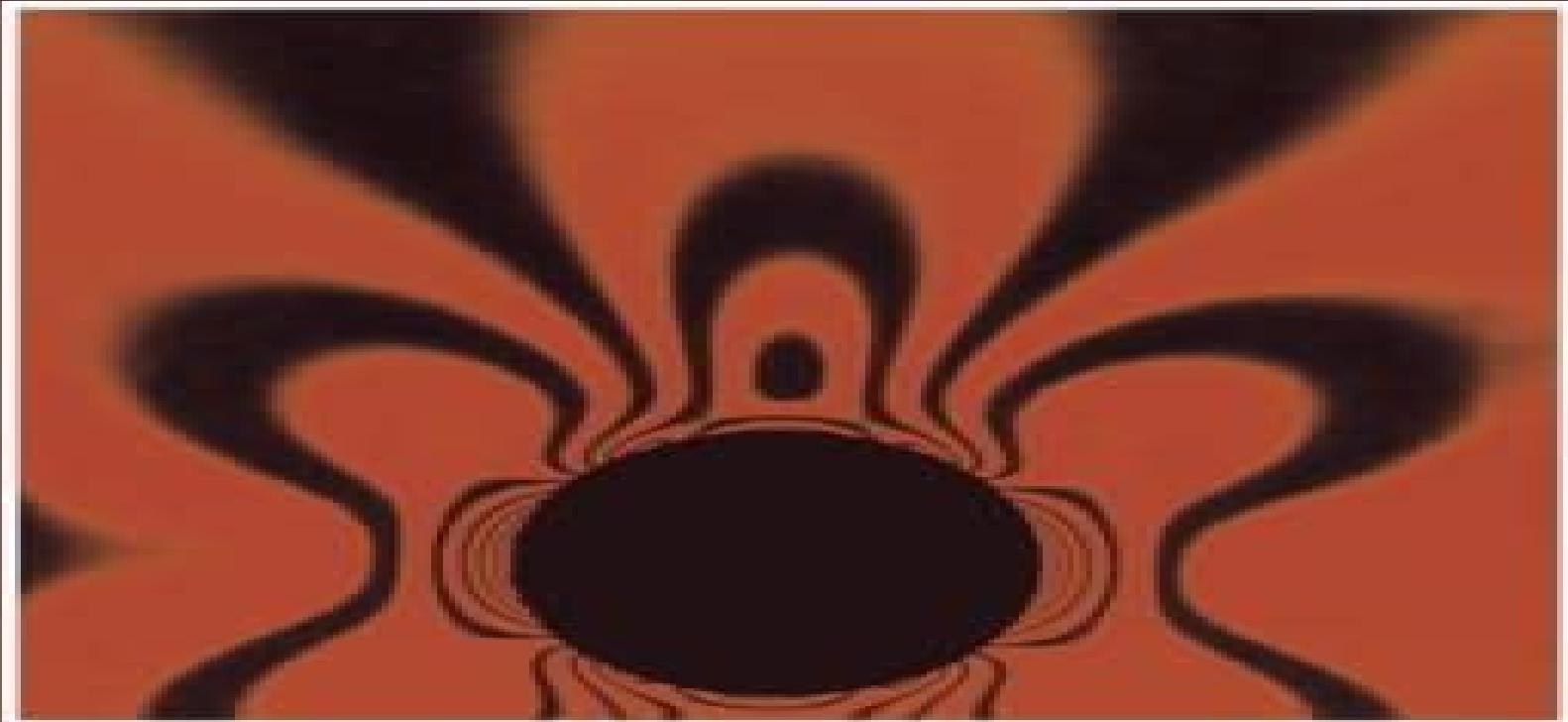


Mechanical science for technicians

volume 1 second edition

Ian McDonagh



Mechanical Science For Technicians Volume

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Mechanical Science For Technicians Volume :

Mechanical Science for Technicians Ian McDonagh, 2014-05-15 Mechanical Science for Technicians Volume 2 introduces the basic principles of stress and strain analysis. The book is comprised of 10 chapters that cover various aspects of mechanical sciences. The text first details the principles of stress and strain analysis and then proceeds to tackling the second moments of area of beam sections. Next the book discusses combined direct and bending stresses. Chapter 4 talks about shear force and bending moment while Chapter 5 deals with the slope and deflection of beams. The next chapters cover belt friction, velocity diagrams, flywheels and oscillations. The last chapter discusses balancing rotating masses. The text will be of great use to mechanical engineers and technicians. Professionals dealing with machineries will also benefit from the book.

Mechanical Science for Technicians Ian McDonagh, 1984-03-01 *Mechanical Science for Technicians* Ian McDonagh, 2014-05-15 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. The International Journal of Mechanical Engineering Education, 1986

Mechanical World and Engineering Record, 1964 Mechanical Science for Technicians, 1984 Chartered Mechanical Engineer, 1984 **Subject Guide to Books in Print**, 1991 **CME**, 1984 **The Plant Engineer**, 1984
The Chartered Mechanical Engineer, 1970 **The Publishers' Trade List Annual**, 1979 *Bookseller*, 1967 Vols for 1871-76 1913-14 include an extra number. The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series. **Publisher and Bookseller**, 1963 Vols for 1871-76 1913-14 include an extra number. The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series. **The British Library General Catalogue of Printed Books 1976 to 1982** British Library, 1983 *Technical Education and Industrial Training*, 1970 **The British National Bibliography Cumulated Subject Catalogue**, 1970 **Examples in Engineering Science for Mechanical Engineering Technicians**, 1969 **The Scottish Educational Journal**, 1964
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