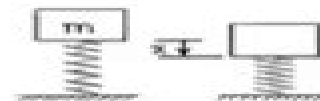


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Initial Max. deformation

The maximum force $F = kx$ occurs when x is a maximum with $\dot{x} = 0$.

$$U_1 + \Delta T = mgs - \frac{1}{2}kx^2 = 0, \quad x = \frac{2mg}{k}$$

$$\text{So } F = kx = 2mg$$

$$3/129 \quad T_A + V_{A-0} = T_C : 0 + 2mgR = \frac{1}{2}mv_C^2, \quad v_C^2 = 4gR$$

$$(a) \quad \Sigma F_n = ma_n : N_B = m \frac{4gR}{R} = 4mg$$

$$(b) \quad T_A + V_{A-C} = T_C : 0 + 3mgR = \frac{1}{2}mv_C^2, \quad v_C^2 = 6gR$$

$$\Sigma F_n = ma_n : N_C - mg = m \frac{6gR}{R}$$

$$N_C = 7mg$$

(c) Coll. stopping point E:

$$T_A + V_{A-E} = T_E$$

$$0 + 2mgR - mg\left(\frac{1}{2}\right) - \mu_k \frac{15}{2}mg = 0$$

$$s = \frac{4R}{1 + \mu_k 15}$$

(Note: Normal force on incline is)

$$N = mg \cos 30^\circ = \frac{\sqrt{3}}{2}mg$$

3/130 Let s = distance down incline before reversal of direction.

$$U_1 + \Delta T = 100(2)(10 + s - s) - 200(10 + s - s)\frac{5}{13} = 1046 \text{ ft}\cdot\text{lb}$$

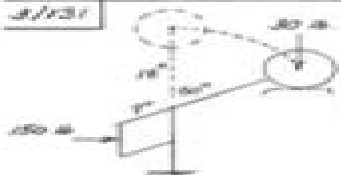
$$\Delta T = \frac{1}{2} \frac{350}{32.2} [v^2 - (17)^2] = 4.66v^2 - 377 \text{ ft}\cdot\text{lb}$$

$$U_1 + \Delta T : 1046 = 4.66v^2 - 377$$

$$v = 17.45 \text{ ft/sec}$$

The initial kinetic energy is positive regardless of the velocity direction.

3/131



$$U_1 + \Delta T$$

$$150\left(\frac{1}{2} \sin 60^\circ\right) - 30 \frac{32.2}{16} (0 - v^2)$$

$$= \frac{1}{2} \frac{30}{16} (v^2 - 0)$$

$$v^2 = 160.8, \quad v = 12.68 \text{ m/sec}$$

$$3/132 \quad U_1 + \Delta T : mg(0.8 - 1.8 \cos 60^\circ)$$

$$= \frac{1}{2}m(12^2 - 9^2)$$

$$R(1)(0.20) = \frac{1}{2}(12^2 - 9^2), \quad 12^2 = 12.92, \quad 12 = 3.59 \text{ m/s}$$

3/133



$$+\uparrow \Sigma F = 0 : 9810 - 4T = 0, \quad T = 2450 \text{ N}$$

Length of cable $L = 4s_0 + \text{constants}$

$$L = 4v_0 = 4(3) = 12 \text{ m/s}$$

$$P_{\text{out}} = -T\dot{L} = -2450(12) = 29400 \text{ watts}$$

$$\text{or } P_{\text{out}} = 29.4 \text{ kW}$$

$$C = \frac{P_{\text{out}}}{P_{\text{in}}}, \quad P_{\text{in}} = \frac{P_{\text{out}}}{C} = \frac{29.4}{0.8}$$

$$P_{\text{in}} = 36.8 \text{ kW}$$

3/134



$$U_1 + \Delta T (\text{system})$$

$$\text{First interval: } 30(9.81)(1.2) - [30(9.81)(0.5 + 1.224)] \frac{1}{2} = \frac{1}{2} 30 v^2 + \frac{1}{2} 30 (10)^2$$

$$v^2 = 6.076 \text{ m/s}^2, \quad v = 2.447 \text{ m/s}$$

$$\text{Second interval: } 15(9.81)(2) - [30(9.81)(0.5 + 1.224)] \frac{1}{2} = 0 - \frac{1}{2} 15 (2.447)^2$$

$$- \frac{1}{2} 30 \left(\frac{5.076}{2} \right)$$

$$y = 2.18 \text{ m}, \quad s = \frac{1}{2} (1.2 + 2.18) = 1.69 \text{ m}$$

$$3/135 \quad U_1 + \Delta T : - \int_0^0 (3x^2 + 60x) dx = \frac{1}{2} \frac{40}{32.2} (0 - v^2) 12$$

$$x^3 + 30x^2 \Big|_0^0 = \frac{50}{32.2} v^2, \quad v \text{ in ft/sec.}$$

$$v^2 = \frac{32.2}{50} (60 + 480) = 60.82 (100 \text{ m/s})^2, \quad v = 24.0 \text{ m/sec}$$

$$3/136 \quad \Theta = \tan^{-1} \frac{6}{100} = 3.43^\circ$$

$$U_1 + \Delta T : U_1 + mgh = \frac{1}{2} m (v_1^2 + v_2^2)$$

$$U_1 = -1400(9.81)(200 \sin 3.43^\circ)$$

$$+ \frac{1}{2} 1400 \left[\left(\frac{20}{5.28} \right)^2 + \left(\frac{100}{5.28} \right)^2 \right]$$

$$= -683,000 \text{ J} \quad \text{or} \quad -683 \text{ kJ}$$

$$\text{Energy lost } Q = 683 \text{ kJ}$$

3/137 The power output of the drivetrain is

$$P_{\text{out}} = Fv = 540 \left(\frac{30}{3.6} \right) = 14,400 \text{ W}$$

The power input to the drivetrain:

$$P_{\text{in}} = \frac{P_{\text{out}}}{\epsilon} = \frac{14,400}{0.70} = 20,571 \text{ W}$$

$$\text{So the motor output } P = 20.6 \text{ kW}$$

Engineering Mechanics Dynamic 7th Solutions

Michael P. Paidoussis



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Engineering Mechanics--7th Conference American Society of Civil Engineers. Engineering Mechanics Division. Specialty Conference, 1988 Nonlinear Waves In Bounded Media: The Mathematics Of Resonance Brian R Seymour, Michael P Mortell, 2017-01-18 This unique book aims to treat a class of nonlinear waves that are reflected from the boundaries of media of finite extent. It involves both standing unforced waves and resonant oscillations due to external periodic forcing. The waves are both hyperbolic and dispersive. To achieve this aim, the book develops the necessary understanding of linear waves and the mathematical techniques of nonlinear waves before dealing with nonlinear waves in bounded media. The examples used come mainly from gas dynamics, water waves and viscoelastic waves. **Mechanics of Machines** Viswanatha Ramamurti, 2005 Emphasizes the industrial relevance of the subject matter, dispenses with conventional inaccurate graphical methods used in Kinematics of plane mechanisms, cams and balancing. Instead, presents a general vector approach for both plane and space mechanisms. **BOOK JACKET** **Next Generation Energetics** Jacqueline Akhavan, 2025-07-18 Held for the second time in the UK, the international conference in explosives and other energetics took place in June 2024. These conferences host international academics and practitioners who share and showcase research undertaken in this area. Particularly important is the part the UK plays as one of the world leaders in this area with the opportunity to provide unclassified and novel research. This book contains the proceedings of this meeting and comprises unique peer-reviewed papers which are highly desirable for researchers in this field. Divided into two sections on synthesis, characterisation and diagnostics and artificial intelligence, simulation and modelling, the book captures the fundamental science of explosives and energetic materials that underpins deeper understanding of explosives, propellants, pyrotechnics and gas generators. All professionals from early careers through to subject matter experts will find topics of interest in this snapshot of research.

Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications Alphose Zingoni, 2019-08-21 *Advances in Engineering Materials Structures and Systems Innovations Mechanics and Applications* comprises 411 papers that were presented at SEMC 2019, the Seventh International Conference on Structural Engineering Mechanics and Computation, held in Cape Town, South Africa, from 2 to 4 September 2019. The subject matter reflects the broad scope of SEMC conferences and covers a wide variety of engineering materials, both traditional and innovative, and many types of structures. The many topics featured in these Proceedings can be classified into six broad categories that deal with: i) the mechanics of materials and fluids, elasticity, plasticity, flow through porous media, fluid dynamics, fracture, fatigue, damage, delamination, corrosion, bond, creep, shrinkage, etc.; ii) the mechanics of structures and systems, structural dynamics, vibration, seismic response, soil-structure interaction, fluid-structure interaction, response to blast and impact, response to fire, structural stability, buckling, collapse, behaviour; iii) the numerical modelling and experimental testing of materials and structures, numerical methods, simulation techniques, multi-scale modelling, computational modelling, laboratory testing, field

testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning The SEMC 2019 Proceedings will be of interest to civil structural mechanical marine and aerospace engineers Researchers developers practitioners and academics in these disciplines will find them useful Two versions of the papers are available Short versions intended to be concise but self contained summaries of the full papers are in this printed book The full versions of the papers are in the e book **Fluid-Structure Interactions: Volume 2** Michael P. Paidoussis,2016-02-05 The second of two volumes concentrating on the dynamics of slender bodies within or containing axial flow Volume 2 covers fluid structure interactions relating to shells cylinders and plates containing or immersed in axial flow as well as slender structures subjected to annular and leakage flows This volume has been thoroughly updated to reference the latest developments in the field with a continued emphasis on the understanding of dynamical behaviour and analytical methods needed to provide long term solutions and validate the latest computational methods and codes with increased coverage of computational techniques and numerical methods particularly for the solution of non linear three dimensional problems Provides an in depth review of an extensive range of fluid structure interaction topics with detailed real world examples and thorough referencing throughout for additional detail Organized by structure and problem type allowing you to dip into the sections that are relevant to the particular problem you are facing with numerous appendices containing the equations relevant to specific problems Supports development of long term solutions by focusing on the fundamentals and mechanisms needed to understand underlying causes and operating conditions under which apparent solutions might not prove effective Thermodynamics with Chemical Engineering Applications Elias I. Franses,2014-08-25 Master the principles of thermodynamics and understand their practical real world applications with this deep and intuitive undergraduate textbook *GATE 2020 Mechanical Engineering Guide with 10 Practice Sets (6 in Book + 4 Online)* 7th edition Deepak Pathak,2019-05-30 GATE Mechanical Engineering Guide 2020 with 10 Practice Sets 6 in Book 4 Online Tests 7th edition for GATE exam contains exhaustive theory past year questions practice problems and Mock Tests Covers past 15 years questions Exhaustive EXERCISE containing 100 150 questions in each chapter In all contains around 5300 MCQs Solutions provided for each question in detail The book provides 10 Practice Sets 6 in Book 4 Online Tests designed exactly on the latest pattern of GATE exam *Statics and Structural Mechanics* Omprakash Beniwal,2025-02-20 Statics and Structural Mechanics delves deep into the principles governing the stability and behavior of structures As the backbone of civil engineering and architecture statics and mechanics ensure the safety reliability and efficiency of built

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