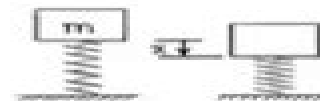


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Initial Max. deformation

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 $T_A + V_{A \rightarrow C} = T_C : 0 + 2mgR = \frac{1}{2}mv_C^2, v_C^2 = 4gR$

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

3/129 $T_A + V_{A \rightarrow C} = T_C : 0 + 3mgR = \frac{1}{2}mv_C^2, v_C^2 = 6gR$

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

$$N_C = 7mg$$

(c) Coll. stopping point E:

$$T_A + V_{A \rightarrow E} = T_E$$

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

$$s = \frac{4R}{15\mu_k 13}$$

(Note: Normal force on incline is)

$$N = mg \cos 30^\circ = \frac{13}{2}mg$$

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Let s = distance down incline before reversal of direction.

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

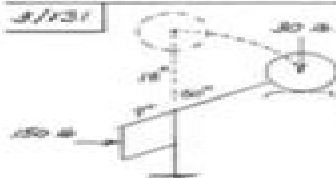
$$\Delta T = \frac{1}{2} \frac{350}{32.2} [v^2 - (17)^2] = 4.66v^2 - 377 \text{ ft}\cdot\text{lb}$$

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

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

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

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$$U_1 + \Delta T$$

$$150\left(\frac{1}{2}g \sin 60^\circ\right) - 30\frac{1}{2}g \sin 60^\circ$$

$$= \frac{1}{2} \frac{150}{32.2} (v^2 - 0)$$

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

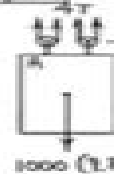
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$$U_1 + \Delta T : mg(0.8 - 1.8 \cos 60^\circ)$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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$$U_1 + \Delta T : -\int_0^0 (3x^2 + 60x) dx = \frac{1}{2} \frac{400}{32.2} (0 - v^2) 12$$

$$x^2 + 20x^2 \Big|_0^0 = \frac{500}{32.2} v^2, \quad v \text{ in ft/sec.}$$

$$v^2 = \frac{32.2}{500} (60 + 480) = 60.82 (100 \text{ m/s})^2, \quad v = 240 \text{ ft/sec}$$

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$$\Theta = \tan^{-1} \frac{6}{100} = 3.43^\circ$$

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

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

$$+ \frac{1}{2} 1400 \left[\left(\frac{20}{3.6}\right)^2 - \left(\frac{100}{3.6}\right)^2 \right]$$

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

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

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The power output of the drivetrain is

$$P_{\text{out}} = Fv = 540 \left(\frac{30}{3.6}\right) = 14,000 \text{ W}$$

The power input to the drivetrain:

$$P_{\text{in}} = \frac{P_{\text{out}}}{\epsilon} = \frac{14,000}{0.70} = 20,000 \text{ W}$$

$$\text{So the motor output } P = 20 \text{ kW}$$

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E Durkheim



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GAS DYNAMICS, Seventh Edition RATHAKRISHNAN, E.,2020-07-01 This revised and updated seventh edition continues to provide the most accessible and readable approach to the study of all the vital topics and issues associated with gas dynamic processes At every stage the physics governing the process its applications and limitations are discussed in detail With a strong emphasis on the basic concepts and problem solving skills this text is suitable for a course on Gas Dynamics Compressible Flows High speed Aerodynamics at both undergraduate and postgraduate levels in aerospace engineering mechanical engineering chemical engineering and applied physics The elegant and concise style of the book along with illustrations and worked out examples makes it eminently suitable for self study by students and also for scientists and engineers working in the field of gas dynamics in industries and research laboratories The computer program to calculate the coordinates of contoured nozzle with the method of characteristics has been given in C language The program listing along with a sample output is given in the Appendix NEW TO THE EDITION A new chapter on the Power of Compressible Bernoulli Equation Extra chapter end examples in Chapter 5 Additional exercise problems in Chapters 5 6 7 and 8 KEY FEATURES Concise coverage of the thermodynamic concepts to serve as a revision of the background material Introduction to measurements in compressible flows and optical flow visualization techniques Introduction to rarefied gas dynamics and high temperature gas dynamics Solutions Manual for instructors containing the complete worked out solutions to chapter end problems In depth presentation of potential equations for compressible flows similarity rule and two dimensional compressible flows Logical and systematic treatment of fundamental aspects of gas dynamics waves in the supersonic regime and gas dynamic processes TARGET AUDIENCE BE B Tech Mechanical Engineering Aeronautical Engineering ME M Tech Thermal Engineering Aeronautical Engineering **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 **Engineering Mechanics: Dynamics** Bela Imre Sandor,1983 **Blended Learning in Practice** Amanda G. Madden,Lauren Margulieux,Robert S. Kadel,Ashok K. Goel,2019-04-09 A guide to both theory and practice of blended learning offering rigorous research case studies and methods for the assessment of educational effectiveness

Blended learning combines traditional in person learning with technology enabled education Its pedagogical aim is to merge the scale asynchrony and flexibility of online learning with the benefits of the traditional classroom content rich instruction and the development of learning relationships This book offers a guide to both theory and practice of blended learning offering rigorous research case studies and methods for the assessment of educational effectiveness The contributors to this volume adopt a range of approaches to blended learning and different models of implementation and offer guidelines for both researchers and instructors considering such issues as research design and data collection In these courses instructors addressed problems they had noted in traditional classrooms attempting to enhance student engagement include more active learning strategies approximate real world problem solving and reach non majors The volume offers a cross section of approaches from one institution Georgia Tech to provide both depth and breadth It examines the methodologies of implementation in a variety of courses ranging from a first year composition class that incorporated the video game Assassin s Creed II to a research methods class for psychology and computer science students Blended Learning will be an essential resource for educators researchers administrators and policy makers Contributors Joe Bankoff Paula Braun Mark Braunstein Marion L Brittain Timothy G Buchman Rebecca E Burnett Aldo A Ferri Bonnie Ferri Andy Frazee Mohammed M Ghassemi Ashok K Goel Alyson B Goodman Joyelle Harris Cheryl Hiddleson David Joyner Robert S Kadel Kenneth J Knoespel Joe Le Doux Amanda G Madden Lauren Margulieux Olga Menagarishvili Shamim Nemati Vjollca Sadiraj Donald Webster

Engineering Mechanics--7th Conference American Society of Civil Engineers. Engineering Mechanics Division. Specialty Conference,1988 **Engineering Mechanics** ,1892 **Applied Hydrodynamics** Hubert Chanson,2013-08-30 This textbook treats Hydro and Fluid Dynamics the engineering science dealing with forces and energies generated by fluids in motion playing a vital role in everyday life Practical examples include the flow motion in the kitchen sink the exhaust fan above the stove and the air conditioning system in our home When driving a car the air flow around the vehicle body induces some drag which increases with the square of the car speed and contributes to excess fuel consumption Engineering applications encompass fluid transport in pipes and canals energy generation environmental processes and transportation cars ships aircrafts This book deals with the topic of applied hydrodynamics The lecture material is grouped into two complementary sections ideal fluid flow and real fluid flow The former deals with two and possibly three dimensional fluid motions that are not subject to boundary friction effects while the latter considers the flow regions affected by boundary friction and turbulent shear The lecture material is designed as an intermediate course in fluid dynamics for senior undergraduate and postgraduate students in Civil Environmental Hydraulic and Mechanical Engineering It is supported by notes applications remarks and discussions in each chapter Moreover a series of appendices is added while some major homework assignments are developed at the end of the book before the bibliographic references *Engineering Mechanics, Third Edition* G. Ramamurty,Rajesh Kumar,R.S. Walia,2018-04-30 Keeping in mind the curricula of various institutes the text

of this present edition has been thoroughly revised and several new problems with solutions have been added to make it more competitive and useful for the students Solutions to typical problems from statics and dynamics provide the reader sufficient capability for solving the problems of mechanics This book focuses on the basic concepts of Engineering Mechanics and provides fundamental information required for understanding advanced subjects based on mechanics *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1961 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December *Recent Advances in Computational Mechanics and Simulations* Sandip Kumar Saha, Mousumi Mukherjee, 2020-11-13 This volume presents selected papers from the 7th International Congress on Computational Mechanics and Simulation held at IIT Mandi India The papers discuss the development of mathematical models representing physical phenomena and applying modern computing methods and simulations to analyse them The studies cover recent advances in the fields of nano mechanics and biomechanics simulations of multiscale and multiphysics problems developments in solid mechanics and finite element method advancements in computational fluid dynamics and transport phenomena and applications of computational mechanics and techniques in emerging areas The volume will be of interest to researchers and academics from civil engineering mechanical engineering aerospace engineering materials engineering science physics mathematics and other disciplines **Twenty-Second Symposium on Naval Hydrodynamics** National Research Council, Naval Surface Warfare Center, Carderock Division, Office of Naval Research, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Naval Studies Board, 2000-03-02 The Twenty Second Symposium on Naval Hydrodynamics was held in Washington D C from August 9 14 1998 It coincided with the 100th anniversary of the David Taylor Model Basin This international symposium was organized jointly by the Office of Naval Research Mechanics and Energy Conversion S T Division the National Research Council Naval Studies Board and the Naval Surface Warfare Center Carderock Division David Taylor Model Basin This biennial symposium promotes the technical exchange of naval research developments of common interest to all the countries of the world The forum encourages both formal and informal discussion of the presented papers and the occasion provides an opportunity for direct communication between international peers **Applied Mechanics Reviews**, 1973 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 general vector approach for both plane and space mechanisms BOOK JACKET Artificial Intelligence And Innovation Management Stoyan Tanev, Helena Blackbright, 2022-03-09 Artificial Intelligence and Innovation Management contributes to the ongoing debate among innovation scholars and practitioners focusing on the potential impact of Artificial Intelligence AI on the ways companies and organizations do business operate and innovate It considers AI as a source of innovation both in terms of innovation within the field of AI itself AI innovation and in terms of how it enables or

disrupts innovation in other fields AI driven innovation The book s content is driven by several important conclusions It is therefore both necessary and timely to explore the different aspects of the relationship between AI and IM The contributors to this book include both scholars and practitioners from multiple countries and different types of institutions They were selected based on their ability to provide a relevant distinctive perspective on the relationship between AI and IM the degree of their professional engagement with the field their ability to contribute to the thematic and contextual diversity of the contributions and their ability to provide actionable insights for both innovation scholars and practitioners Helena Blackbright M lardalen University Sweden and Stoyan Tanev Carleton University Canada are chairing the Special Interest Group on AI and IM at the International Society for Professional Innovation Management <https://www.ispim.innovation.com>

Facilitating Seven Ways of Learning James R. Davis, Bridget D. Arend, 2023-07-03 For teachers in higher education who haven t been able to catch up with developments in teaching and learning James Davis and Bridget Arend offer an introduction that focuses on seven coherent and proven evidence based strategies The underlying rationale is to provide a framework to match teaching goals to distinct ways of learning based on well established theories of learning The authors present approaches that readers can readily and safely experiment with to achieve desired learning outcomes and build confidence in changing their methods of teaching Research on learning clearly demonstrates that learning is not one thing but many The learning associated with developing a skill is different from the learning associated with understanding and remembering information which in turn is different from thinking critically and creatively solving problems making decisions or change paradigms in the light of evidence Differing outcomes involve different ways of learning and teaching strategies The authors provide the reader with a conceptual approach for selecting appropriate teaching strategies for different types of content and for achieving specific learning objectives They demonstrate through examples how a focused and purposeful selection of activities improves student performance and in the process makes for a more effective and satisfying teaching experience The core of the book presents a chapter on each of the seven ways of learning Each chapter offers a full description of the process illustrates its application with examples from different academic fields and types of institutions clearly describes the teacher s facilitation role and covers assessment and online use The seven ways of learning are Behavioral Learning Cognitive Learning Learning through Inquiry Learning with Mental Models Learning through Groups and Teams Learning through Virtual Realities and Experiential Learning Along the way the authors provide the reader with a basis for evaluating other approaches to teaching and other learning methodologies so that she or he can confidently go beyond the seven ways to adapt or adopt further strategies This is the ideal companion for teachers who are beginning to explore new ways of teaching and want to do some serious independent thinking about learning The book can also be used to prepare graduate students for teaching and will be welcomed by centers for teaching and learning to help continuing faculty re examine a particular aspect of their teaching

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