

42. Past Board Problem

A box of mass 2.6 kg, starting from rest falls a vertical distance of 55 cm before striking a vertical coiled spring, which it compresses. If the spring has a stiffness constant of 720 N/m and a negligible mass, compute the maximum compression of the spring?

- A. 0.24 m
- B. 0.35 m
- C. 0.15 m
- D. 0.30 m

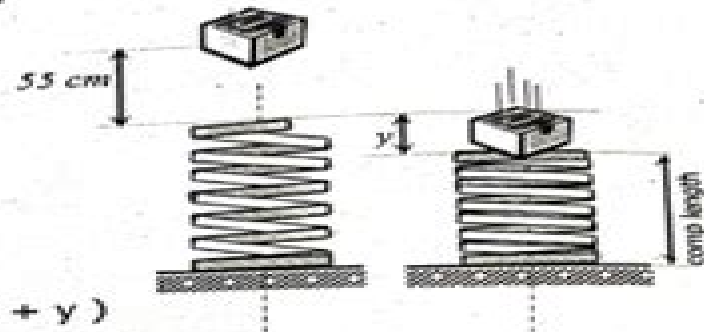
Solution:

Work done on spring = PE of the Box

$$\frac{1}{2} ky^2 = mg (55 + y)$$

$$\frac{1}{2} (720) y^2 = 2.6(9.81)(0.55 + y)$$

$$\Rightarrow y = 0.24$$

**43. Past Board Problem**

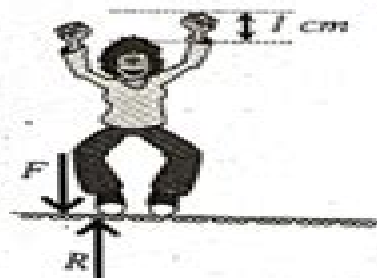
A 70 kg person lands on firm ground after jumping from a height of 5 m. Estimate the force exerted on the person's feet by the ground if the landing makes the body move 1.0 cm during the impact.

- A. 346.5 kN
- B. 245.56 kN
- C. 124.56 kN
- D. 453.76 kN

Solution:

$$v = \sqrt{2gh} = \sqrt{2(9.81)(5)} = 9.9 \text{ m/s}$$

$$t = \frac{S}{V_{\text{ave}}} = \frac{0.01}{\left(\frac{9.9 + 0}{2}\right)} = 0.002 \text{ s}$$



Using Impulse-Momentum Theorem:

Impulse = Change in Momentum

$$F \cdot t = m\Delta v$$

$$F = \frac{70(9.9 - 0)}{0.002} = 346.5 \text{ kN}$$

\Rightarrow thus; $R = 346.5 \text{ kN}$

Solved Problems In Eng G Mechanics Dynamics

Russell C. Hibbeler



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Solving Practical Engineering Problems in Engineering Mechanics Sayavur I. Bakhtiyarov, 2022-05-31 Engineering Mechanics is one of the fundamental branches of science that is important in the education of professional engineers of any major. Most of the basic engineering courses such as mechanics of materials, fluid and gas mechanics, machine design, mechatronics, acoustics, vibrations etc are based on an Engineering Mechanics course. In order to absorb the materials of Engineering Mechanics it is not enough to consume just theoretical laws and theorems; a student also must develop an ability to solve practical problems. Therefore it is necessary to solve many problems independently. This book is a part of a four-book series designed to supplement the Engineering Mechanics courses in the principles required to solve practical engineering problems in the following branches of mechanics: Statics, Kinematics, Dynamics, and Advanced Kinetics. Each book contains 6-8 topics on its specific branch and each topic features 30 problems to be assigned as homework, tests, and/or midterm/final exams with the consent of the instructor. A solution of one similar sample problem from each topic is provided. This third book in the series contains seven topics on Dynamics, the branch of mechanics that is concerned with the relation existing between the forces acting on the objects and the motion of these objects. This book targets undergraduate students at the sophomore/junior level majoring in science and engineering.

Practice Problems Workbook for Engineering Mechanics Russell C. Hibbeler, 2009-05 **Technology-Assisted Problem Solving for Engineering Education: Interactive Multimedia Applications** Sidhu, Manjit Singh, 2009-09-30 Explores best practices in assisting students in understanding engineering concepts through interactive and virtual environments **Adapting Information and Communication Technologies for Effective Education** Tomei, Lawrence A., 2007-11-30 Educational initiatives attempt to introduce or promote a culture of quality within education by raising concerns related to student learning, providing services related to assessment, professional development of teachers, curriculum and pedagogy, and influencing educational policy in the realm of technology. Adapting Information and Communication Technologies for Effective Education addresses ICT assessment in universities, student satisfaction in management information system programs, factors that impact the successful implementation of a laptop program, student learning and electronic portfolios, and strategic planning for e-learning. Providing innovative research on several fundamental technology-based initiatives, this book will make a valuable addition to every reference library.

Dynamics in Engineering Practice Dara W. Childs, Andrew P. Conkey, 2015-04-17 Observing that most books on engineering dynamics left students lacking and failing to grasp the general nature of dynamics in engineering practice, the authors of Dynamics in Engineering Practice, Eleventh Edition, focused their efforts on remedying the problem. This text shows readers how to develop and analyze models to predict motion. While estimating the motion of a mechanism is a basic subject taught in engineering schools to mechanical engineering students, this subject lays the foundation on which mechanical

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An Unsocial Socialist Bernard Shaw, 1963

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they are used to solving problems with calculus and differential equations Unfortunately these approaches do not apply for Thermodynamics Instead they have to rely on many data tables and graphs to solve problems In addition many concepts are hard to understand such as entropy Therefore most students feel very frustrated while taking this course The key concept in Engineering Thermodynamics is state properties If one knows two properties the state can be determined as well as the other four properties Unlike most textbooks the first two chapters of this book introduce thermodynamic properties and laws with the ideal gas model where equations can be engaged In this way students can employ their familiar approaches and thus can understand them much better In order to help students understand entropy in depth interpretation with statistical physics is introduced Chapters 3 and 4 discuss control mass and control volume processes with general fluids where the data tables are used to solve problems Chapter 5 covers a few advanced topics which can also help students understand the concepts in thermodynamics from a broader perspective

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College of Engineering (University of Michigan) Publications University of Michigan. College of Engineering, 1926 Also contains brochures directories manuals and programs from various College of Engineering student organizations such as the Society of Women Engineers and Tau Beta Pi

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