

PROBLEM 14.40

A 40-lb block B is suspended from a 6-ft cord attached to a 60-lb cart A, which may roll freely on a frictionless, horizontal track. If the system is released from rest in the position shown, determine the velocities of A and B as B passes directly under A.

SOLUTION

Conservation of linear momentum:

Since block and cart are initially at rest,

$$\mathbf{L}_0 = 0$$

Thus, as B passes under A.

$$\mathbf{L} = m_A \mathbf{v}_B + m_B \mathbf{v}_B = 0$$

$$+ m_A v_A + m_B v_B = 0$$

$$v_d = -\frac{m_B}{m_A}v_B \qquad (1)$$

Conservation of energy:

Initially.

$$T_{\alpha} = 0$$

$$V_{\alpha} = m_0 g I (1 - \cos \theta)$$

As B passes under A,

$$T = \frac{1}{2} m_A v_A^2 + \frac{1}{2} m_B v_B^2$$

$$F' = 0$$

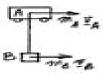
Thus.

$$T_0 + V_0 = T + V$$
: $m_B g l (1 - \cos \theta) = \frac{1}{2} m_A v_A^2 + \frac{1}{2} m_B v_B^2$

Substituting for v_{ϵ} from (1) and multiplying by 2:

$$2m_B gl(1 - \cos \theta) = m_d \left(\frac{m_B^2}{m_A^2} v_B^2\right) + m_B v_B^2$$

 $= \left(\frac{m_B^2}{m_A} + m_B\right) v_B^2 = m_B \frac{m_B + m_A}{m_A} v_B^2$
 $v_B = \sqrt{\frac{2m_B}{m_A + m_B}} gl(1 - \cos \theta)$ (2)



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Vector Mechanics Solution Manual 9th

K.J Bathe

Vector Mechanics Solution Manual 9th:

Dynamics - Formulas and Problems Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics Canadiana, 1982

Scientific and Technical Books in Print, 1972 Scientific and Technical Books and Serials in Print, 1989 Subject

Guide to Books in Print, 1984 Aircraft Performance Mohammad H. Sadraev, 2017-01-27 Aircraft Performance An

Aircraft Performance Mohammad H. Sadraey, 2017-01-27 Aircraft Performance An Engineering Approach introduces flight performance analysis techniques that enable readers to determine performance and flight capabilities of aircraft Flight performance analysis for prop driven and jet aircraft is explored supported by examples and illustrations many in full color MATLAB programming for performance analysis is included and coverage of modern aircraft types is emphasized The text builds a strong foundation for advanced coursework in aircraft design and performance Scientific and Technical Aerospace Reports ,1990 The British National Bibliography Arthur James analysis Computational Fluid and Solid Mechanics 2003 K.J Bathe, 2003-06-02 Wells.1998 Whitaker's Book List .1991 Bringing together the world's leading researchers and practitioners of computational mechanics these new volumes meet and build on the eight key challenges for research and development in computational mechanics Researchers have recently identified eight critical research tasks facing the field of computational mechanics These tasks have come about because it appears possible to reach a new level of mathematical modelling and numerical solution that will lead to a much deeper understanding of nature and to great improvements in engineering design The eight tasks are The automatic solution of mathematical models Effective numerical schemes for fluid flows The development of an effective mesh free numerical solution method The development of numerical procedures for multiphysics problems The development of numerical procedures for multiscale problems The modelling of uncertainties The analysis of complete life cycles of systems Education teaching sound engineering and scientific judgement Readers of Computational Fluid and Solid Mechanics 2003 will be able to apply the combined experience of many of the world's leading researchers to their own research needs Those in academic environments will gain a better insight into the needs and constraints of the industries they are involved with those in industry will gain a competitive advantage by gaining insight into the cutting edge research being carried out by colleagues in academia Features Bridges the gap between academic researchers and practitioners in industry Outlines the eight main challenges facing Research and Design in Computational mechanics and offers new insights into the shifting the research agenda Provides a vision of how strong basic and exciting education at university can be harmonized with life long learning

to obtain maximum value from the new powerful tools of analysis
The Publishers' Trade List Annual ,1980

Technical Books in Print ,1966
Applied Mechanics Reviews ,1948
Books in Print Supplement ,1994
The Shock and Vibration Digest ,1995
Paperbound Books in Print ,1992
Journal of Engineering Mechanics ,1999

Rider Papers on Euclid (books I. and II.) Rupert Deakin,1891
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International Books in Print ,1997

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Bulb! [AMANDA laughs nervously, LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... The Daily Bible by Smith, F. LaGard The Daily Bible® makes it simple by organizing the whole of Scripture in chronological order, as well as presenting Proverbs topically and the Psalms by themes. The Daily Bible® - In Chronological Order (NIV®) As this unique, chronological presentation of God's story daily unfolds before you, you will begin to appreciate God's plan for your life as never before. The Daily Bible (NIV) As this unique, chronological presentation of God's story daily unfolds before you, you will begin to appreciate God's plan for your life as never before. The Daily Bible - In Chronological Order (NIV) - eBook ... - enable you to focus on specific aspects of God's wisdom. The Daily Bible - In Chronological Order (NIV) - eBook (9780736983211) by F. LaGard Smith. The Daily Bible - F. LaGard Smith The Daily Bible® in chronological order with 365 daily readings with devotional insights by F. LaGard Smith to guide you through God's Word (NIV). Check It Out ... The Daily Bible (NIV) by F. LaGard Smith, Paperback As this unique, chronological presentation of God's story daily unfolds before you, you will begin to appreciate God's plan for your life as never before. The Daily Bible® - In Chronological Order (NIV®) As this unique, chronological presentation of God's story daily unfolds before you, you will begin to appreciate God's plan for your life as never before. 365 Daily Readings In Chronological Order, Paperback New International Version Bible (NIV) arranged chronologically for 365 daily readings ... LaGard Smith is the author of more than 30 books and is the compiler and ... The Daily Bible: In Chronological Order 365 Daily Readings In the hardcover edition of the bestselling and much-loved chronological presentation of the Bible, God's story unfolds before readers each new day, ... The Daily Bible (niv) - By F Lagard Smith (hardcover) As this unique, chronological presentation of God's story daily unfolds ... It's also in chronological order so it's more interesting how it all went in order.