

11.1

Given:  $x = 4t^3 - 6t^2 + 2t - 1$   $x = m$ ,  $t = s$   
 Find:  $x$ ,  $v$ , and  $a$  at  $t = 2s$

Have -  $x = 4t^3 - 6t^2 + 2t - 1$   
 Then  $v = \frac{dx}{dt} = 12t^2 - 12t + 2$   
 And  $a = \frac{dv}{dt} = 24t - 12$

At  $t = 2s$ :  $x_2 = 4(2)^3 - 6(2)^2 + 2(2) - 1$  OR  $x_2 = 19m$   
 $v_2 = 12(2)^2 - 12(2) + 2$  OR  $v_2 = 38 \frac{m}{s}$   
 $a_2 = 48(2) - 12(2)$  OR  $a_2 = 60 \frac{m}{s^2}$

11.2

Given:  $x = 3t^4 + 4t^3 - 7t^2 - 5t + 8$   $x = mm$ ,  $t = s$   
 Find:  $x$ ,  $v$ , and  $a$  at  $t = 3s$

Have -  $x = 3t^4 + 4t^3 - 7t^2 - 5t + 8$   
 Then  $v = \frac{dx}{dt} = 12t^3 + 12t^2 - 14t - 5$   
 And  $a = \frac{dv}{dt} = 36t^2 + 24t - 14$

At  $t = 3s$ :  $x_3 = 3(3)^4 + 4(3)^3 - 7(3)^2 - 5(3) + 8$  OR  $x_3 = 121mm$   
 $v_3 = 12(3)^3 + 12(3)^2 - 14(3) - 5$  OR  $v_3 = 305 \frac{mm}{s}$   
 $a_3 = 36(3)^2 + 24(3) - 14$  OR  $a_3 = 382 \frac{mm}{s^2}$

11.3

Given:  $x = 6t^3 - 8 + 40 \cos 6t$   $x = m$ ,  $t = s$   
 Find:  $x$ ,  $v$ , and  $a$  at  $t = 6s$

Have -  $x = 6t^3 - 8 + 40 \cos 6t$   
 Then  $v = \frac{dx}{dt} = 18t^2 - 40 \sin 6t$   
 And  $a = \frac{dv}{dt} = 36t - 40 \cos 6t$

At  $t = 6s$ :  $x_6 = 6(6)^3 - 8 + 40 \cos 36$  OR  $x_6 = 248m$   
 $v_6 = 12(6)^2 - 40 \sin 36$  OR  $v_6 = 71 \frac{m}{s}$   
 $a_6 = 72 - 40 \cos 36$  OR  $a_6 = 383 \frac{m}{s^2}$

11.4

Given:  $x = \frac{5}{2}t^3 - \frac{7}{2}t^2 - 30t + 8$   $x = ft$ ,  $t = s$   
 Find:  $t$ ,  $x$ , and  $a$  when  $v = 0$

Have -  $x = \frac{5}{2}t^3 - \frac{7}{2}t^2 - 30t + 8$   
 Then  $v = \frac{dx}{dt} = 5t^2 - 7t - 30$   
 And  $a = \frac{dv}{dt} = 10t - 7$

When  $v = 0$ :  $5t^2 - 7t - 30 = 5(t^2 - t - 6) = 0$   
 OR  $t = 3s$  AND  $t = -2s$  (reject)  $\therefore t = 3s$

At  $t = 3s$ :  $x_3 = \frac{5}{2}(3)^3 - \frac{7}{2}(3)^2 - 30(3) + 8$  OR  $x_3 = -58.5ft$   
 $a_3 = 10(3) - 7$  OR  $a_3 = 23 \frac{ft}{s^2}$

11.5

Given:  $x = 6t^4 - 2t^3 - 12t^2 + 3t + 3$   $x = m$ ,  $t = s$   
 Find:  $t$ ,  $x$ , and  $a$  when  $a = 0$

Have -  $x = 6t^4 - 2t^3 - 12t^2 + 3t + 3$   
 Then  $v = \frac{dx}{dt} = 24t^3 - 6t^2 - 24t + 3$   
 And  $a = \frac{dv}{dt} = 72t^2 - 12t - 24$

When  $a = 0$ :  $72t^2 - 12t - 24 = 12(6t^2 - t - 2) = 0$   
 OR  $(3t + 2)(2t - 1) = 0$

OR  $t = -\frac{2}{3}s$  AND  $t = \frac{1}{2}s$  (reject)  $\therefore t = \frac{1}{2}s$   
 At  $t = \frac{1}{2}s$ :  $x_{\frac{1}{2}} = 6(\frac{1}{2})^4 - 2(\frac{1}{2})^3 - 12(\frac{1}{2})^2 + 3(\frac{1}{2}) + 3$  OR  $x_{\frac{1}{2}} = 2.59m$   
 $a_{\frac{1}{2}} = 72(\frac{1}{2})^2 - 12(\frac{1}{2}) - 24$  OR  $a_{\frac{1}{2}} = -9.5 \frac{m}{s^2}$

11.6

Given:  $x = 3t^3 - 4t^2 - 12t + 5$   $x = m$ ,  $t = s$   
 Find: (a)  $t$  when  $v = 0$   
 (b)  $x$  and total distance traveled when  $t = 4s$

Have -  $x = 3t^3 - 4t^2 - 12t + 5$   
 Then  $v = \frac{dx}{dt} = 9t^2 - 8t - 12$   
 And  $a = \frac{dv}{dt} = 18t - 8$

(a) When  $v = 0$ :  $9t^2 - 8t - 12 = 3(3t^2 - 4t - 4) = 0$   
 OR  $(3t + 2)(t - 2) = 0$

OR  $t = -\frac{2}{3}s$  AND  $t = 2s$  (reject)  $\therefore t = 2s$

(b) At  $t = 4s$ :  $x_4 = 3(4)^3 - 4(4)^2 - 12(4) + 5$  OR  $x_4 = 55m$   
 $a = 18(4) - 8$  OR  $a = 60 \frac{m}{s^2}$

First observe that  $0 \leq t \leq 2s$ :  $v < 0$

Now - At  $t = 0$ :  $x_0 = 5m$   
 At  $t = 2s$ :  $x_2 = 3(2)^3 - 4(2)^2 - 12(2) + 5 = -19m$



Then  $x_2 - x_0 = -19 - 5 = -24m$

$x_4 - x_2 = 55 - (-19) = 74m$

$\therefore$  Total distance traveled =  $(24 + 74)m = 98m$

11.7

Given:  $x = t^3 - 9t^2 + 24t - 8$   $x = m$ ,  $t = s$   
 Find: (a)  $t$  when  $v = 0$   
 (b)  $x$  and total distance traveled when  $a = 0$

Have -  $x = t^3 - 9t^2 + 24t - 8$   
 Then  $v = \frac{dx}{dt} = 3t^2 - 18t + 24$   
 And  $a = \frac{dv}{dt} = 6t - 18$

(a) When  $v = 0$ :  $3t^2 - 18t + 24 = 3(t^2 - 6t + 8) = 0$   
 OR  $(t - 2)(t - 4) = 0$

OR  $t = 2s$  AND  $t = 4s$

(b) When  $a = 0$ :  $6t - 18 = 0$  OR  $t = 3s$

At  $t = 3s$ :  $x_3 = 3(3)^3 - 9(3)^2 + 24(3) - 8$  OR  $x_3 = 10m$

First observe that  $0 \leq t \leq 2s$ :  $v > 0$

Now - At  $t = 0$ :  $x_0 = -8m$   
 At  $t = 2s$ :  $x_2 = (2)^3 - 9(2)^2 + 24(2) - 8 = 12m$



Then  $x_2 - x_0 = 12 - (-8) = 20m$

$x_3 - x_2 = 10 - 12 = -2m$

$\therefore$  Total distance traveled =  $(20 + 2)m = 22m$

# Beer Dynamics Solution Manual 9th

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*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 and Serials in Print**, 1984 **Scientific and Technical Books in Print**, 1972

*New at the Energy Library* Energy Library, 1991 *Subject Guide to Books in Print*, 1996 **Railway Noise and Vibration** David Thompson, 2008-12-11 Railways are an environmentally friendly means of transport well suited to modern society However noise and vibration are key obstacles to further development of the railway networks for high speed intercity traffic for freight and for suburban metros and light rail All too often noise problems are dealt with inefficiently due to lack of understanding of the problem This book brings together coverage of the theory of railway noise and vibration with practical applications of noise control technology at source to solve noise and vibration problems from railways Each source of noise and vibration is described in a systematic way rolling noise curve squeal bridge noise aerodynamic noise ground vibration and ground borne noise and vehicle interior noise Theoretical modelling approaches are introduced for each source in a tutorial fashion Practical applications of noise control technology are presented using the theoretical models Extensive examples of application to noise reduction techniques are included Railway Noise and Vibration is a hard working reference and will be invaluable to all who have to deal with noise and vibration from railways whether working in the industry or in consultancy or academic research David Thompson is Professor of Railway Noise and Vibration at the Institute of Sound and Vibration Research University of Southampton He has worked in the field of railway noise since 1980 with British Rail Research in Derby UK and TNO Institute of Applied Physics in the Netherlands before moving to Southampton in 1996 He was responsible for developing the TWINS software for predicting rolling noise Discusses fully the theoretical background and practical workings of railway noise Includes the latest research findings brought together in one place Forms an extended case study in the application of noise control techniques *Books in Print*, 1979 *Mergent International Manual*, 2001 **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 analysis **EBOOK**

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