

**11.1**  
 GIVEN:  $x = 4t^3 - 6t^2 - 2t - 1$   $x$ -m,  $t$ -s  
 FIND:  $x, v, \text{ and } a$  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  $t = 2s$ :  $x_1 = 4(2)^3 - 6(2)^2 - 2(2) - 1$  OR  $x_1 = 19 \text{ m}$   $\blacktriangleleft$   
 $v_1 = 12(2)^2 - 12(2) - 2$  OR  $v_1 = 58 \frac{\text{m}}{\text{s}}$   $\blacktriangleleft$   
 $a_1 = 24(2) - 12$  OR  $a_1 = 36 \frac{\text{m}}{\text{s}^2}$   $\blacktriangleleft$

**11.2**  
 GIVEN:  $x = 3t^4 + 4t^3 - 7t^2 - 5t + 8$   $x$ -mm,  $t$ -s  
 FIND:  $x, v, \text{ and } a$  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  $t = 3s$ :  $x_1 = 3(3)^4 + 4(3)^3 - 7(3)^2 - 5(3) + 8$  OR  $x_1 = 281 \text{ mm}$   $\blacktriangleleft$   
 $v_1 = 12(3)^3 + 12(3)^2 - 14(3) - 5$  OR  $v_1 = 385 \frac{\text{mm}}{\text{s}}$   $\blacktriangleleft$   
 $a_1 = 36(3)^2 + 24(3) - 14$  OR  $a_1 = 392 \frac{\text{mm}}{\text{s}^2}$   $\blacktriangleleft$

**11.3**  
 GIVEN:  $x = 6t^2 - 8 + 40 \cos \pi t$   $x$ -m,  $t$ -s  
 FIND:  $x, v, \text{ and } a$  AT  $t = 6s$

---

HAVE -  $x = 6t^2 - 8 + 40 \cos \pi t$   
 THEN  $v = \frac{dx}{dt} = 12t - 40\pi \sin \pi t$   
 AND  $a = \frac{dv}{dt} = 12 - 40\pi^2 \cos \pi t$

---

AT  $t = 6s$ :  $x_1 = 6(6)^2 - 8 + 40 \cos 6\pi$  OR  $x_1 = 248 \text{ m}$   $\blacktriangleleft$   
 $v_1 = 12(6) - 40\pi \sin 6\pi$  OR  $v_1 = 72 \frac{\text{m}}{\text{s}}$   $\blacktriangleleft$   
 $a_1 = 12 - 40\pi^2 \cos 6\pi$  OR  $a_1 = -383 \frac{\text{m}}{\text{s}^2}$   $\blacktriangleleft$

**11.4**  
 GIVEN:  $x = \frac{3}{2}t^3 - \frac{7}{2}t^2 - 30t + 8$   $x$ -ft,  $t$ -s  
 FIND:  $t, x, \text{ and } a$  WHEN  $v = 0$

---

HAVE -  $x = \frac{3}{2}t^3 - \frac{7}{2}t^2 - 30t + 8$   
 THEN  $v = \frac{dx}{dt} = 3t^2 - 7t - 30$   
 AND  $a = \frac{dv}{dt} = 6t - 7$

---

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

---

AT  $t = 3s$ :  $x_1 = \frac{3}{2}(3)^3 - \frac{7}{2}(3)^2 - 30(3) + 8$  OR  $x_1 = -98.5 \text{ ft}$   $\blacktriangleleft$   
 $a_1 = 6(3) - 7$  OR  $a_1 = 11 \frac{\text{ft}}{\text{s}^2}$   $\blacktriangleleft$

**11.5**  
 GIVEN:  $x = 6t^3 - 2t^2 - 12t^2 + 3t + 3$   $x$ -m,  $t$ -s  
 FIND:  $t, x, \text{ and } v$  WHEN  $a = 0$

---

HAVE -  $x = 6t^3 - 2t^2 - 12t^2 + 3t + 3$   
 THEN  $v = \frac{dx}{dt} = 24t^2 - 24t + 3$   
 AND  $a = \frac{dv}{dt} = 48t - 24$

---

WHEN  $a = 0$ :  $48t - 24 = 12(4t - 2) = 0$   
 OR  $12(2t - 1) = 0$   
 OR  $t = \frac{1}{2}s$  AND  $t = \frac{1}{2}s$  (REJECT)  $\therefore t = 0.667s$   $\blacktriangleleft$

---

AT  $t = \frac{1}{2}s$ :  $x_1 = 6(\frac{1}{2})^3 - 2(\frac{1}{2})^2 - 12(\frac{1}{2})^2 + 3(\frac{1}{2}) + 3$  OR  $x_1 = 2.125 \text{ m}$   $\blacktriangleleft$   
 $v_1 = 24(\frac{1}{2})^2 - 24(\frac{1}{2}) + 3$  OR  $v_1 = -2.5 \frac{\text{m}}{\text{s}}$   $\blacktriangleleft$

**11.6**  
 GIVEN:  $x = 3t^3 - 6t^2 + 12t + 5$   $x$ -m,  $t$ -s  
 FIND: (a)  $t$  WHEN  $v = 0$   
 (b)  $x, a, \text{ TOTAL DISTANCE TRAVELED}$  WHEN  $t = 4s$

---

HAVE -  $x = 3t^3 - 6t^2 + 12t + 5$   
 THEN  $v = \frac{dx}{dt} = 9t^2 - 12t + 12$   
 AND  $a = \frac{dv}{dt} = 18t - 12$

(a) WHEN  $v = 0$ :  $9t^2 - 12t + 12 = 3(3t^2 - 4t + 4) = 0$   
 OR  $(3t + 2)(t - 2) = 0$   
 OR  $t = 2s$  AND  $t = -\frac{2}{3}s$  (REJECT)  $\therefore t = 2s$   $\blacktriangleleft$

(b) AT  $t = 4s$ :  $x_1 = 3(4)^3 - 6(4)^2 + 12(4) + 5$  OR  $x_1 = 53 \text{ m}$   $\blacktriangleleft$   
 $a_1 = 18(4) - 12$  OR  $a_1 = 60 \frac{\text{m}}{\text{s}^2}$   $\blacktriangleleft$

FIRST OBSERVE THAT  $\dots$   $0 < t < 2s$ :  $v > 0$   
 $t > 2s$ :  $v < 0$

NOW... AT  $t = 0$ :  $x_2 = 5 \text{ m}$   
 AT  $t = 2s$ :  $x_3 = 3(2)^3 - 6(2)^2 + 12(2) + 5 = -19 \text{ m}$



THEN  $|x_2 - x_1| = |-19 - 5| = 24 \text{ m}$   
 $|x_1 - x_2| = |53 - (-19)| = 72 \text{ m}$   
 $\therefore$  TOTAL DISTANCE TRAVELED =  $(24 + 72) \text{ m} = 96 \text{ m}$   $\blacktriangleleft$

**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  $t = 4s$   $\blacktriangleleft$

(b) WHEN  $a = 0$ :  $6t - 18 = 0$  OR  $t = 3s$   $\blacktriangleleft$   
 AT  $t = 3s$ :  $x_1 = 3(3)^3 - 9(3)^2 + 24(3) + 8$  OR  $x_1 = 10 \text{ m}$   $\blacktriangleleft$   
 FIRST OBSERVE THAT  $\dots$   $0 < t < 3s$ :  $v > 0$   
 $t > 3s$ :  $v < 0$

NOW... AT  $t = 0$ :  $x_2 = 8 \text{ m}$   
 AT  $t = 3s$ :  $x_3 = (3)^3 - 9(3)^2 + 24(3) + 8 = 12 \text{ m}$



THEN  $x_2 - x_1 = 12 - (8) = 4 \text{ m}$   
 $|x_3 - x_2| = |10 - 12| = 2 \text{ m}$   
 $\therefore$  TOTAL DISTANCE TRAVELED =  $(4 + 2) \text{ m} = 6 \text{ m}$   $\blacktriangleleft$

# Dynamics Solution 9th Edition Beer

**Scott C. Dulebohn**



## **Dynamics Solution 9th Edition Beer:**

*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 **Ebook: Vector Mechanics Engineering: Dynamics SI** BEER, 2010-12-16 Ebook Vector Mechanics Engineering Dynamics SI *Using the Engineering Literature, Second Edition* Bonnie A. Osif, 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links on a topic engineers need the best information information that is evaluated up to date and complete Accurate vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award winning first edition of *Using the Engineering Literature* used a roadmap analogy we now need a three dimensional analysis reflecting the complex and dynamic nature of research in the information age *Using the Engineering Literature Second Edition* provides a guide to the wide range of resources available in all fields of engineering This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering The information age has greatly impacted the way engineers find information Engineers have an effect directly and indirectly on almost all aspects of our lives and it is vital that they find the right information at the right time to create better products and processes Comprehensive and up to date with expert chapter authors this book fills a gap in the literature providing critical information in a user friendly format The Publishers' Trade List Annual, 1980 **Modeling and Analysis of Dynamic Systems** Ramin S. Esfandiari, 2018-01-29 Modeling and Analysis of Dynamic Systems Third Edition introduces MATLAB Simulink and Simscape™ and then utilizes them to perform symbolic graphical numerical and simulation tasks Written for senior level courses modules the textbook meticulously covers techniques for modeling a variety of engineering systems methods of response analysis and introductions to mechanical vibration and to basic control systems These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems The Third Edition now includes Case Studies expanded coverage of system identification and updates to the computational tools included *Canadiana*, 1986 The Genetics Of Altruism Scott Boorman, Paul R. Levitt, 2012-12-02 *The Genetics of Altruism* covers the primary findings on social evolution social trait and altruism from a population genetics standpoint to establish a system of genetic boxes It presents an evolutionary question with two faces Why are there so many

social species Why in all the diversity of the animal kingdom are the social species so few To address the evolutionary question this book focuses on recognition of the fact that on an evolutionary time scale genetics must underlie all changes in the capacity for social structure and other aspects of organic evolution It presents comparative analyses framed in mathematical terms mathematical concepts as a means of getting outside human perhaps more generally primate and carnivore frames of reference and alternative network combinatorics as a natural basis for comparing social structures that are phylogenetically remote It also discusses the comparative biology of social behavior on a purely descriptive basis through the social and evolutionary structures emergent The book concludes by discussing major evolutionary pathways various kinds of preadaptedness for sociality and the use of cascade principle to suggest ways in which human evolution may have been a special case This book is a valuable resource for biologists social scientists researchers students and all those who want to broaden their knowledge in the field of social behavior and altruism

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