

B-2-22.

$$\ddot{x} + 4x = 0, \quad x(0) = 5, \quad \dot{x}(0) = 0$$

The Laplace transform of the given differential equation is

$$[s^2X(s) - sx(0) - \dot{x}(0)] + 4X(s) = 0$$

Substitution of the initial conditions into this last equation gives

$$(s^2 + 4)X(s) = 5s$$

Solving for  $X(s)$ , we obtain

$$X(s) = \frac{5s}{s^2 + 4}$$

The inverse Laplace transform of  $X(s)$  is

$$x(t) = 5 \cos 2t$$

This is the solution of the given differential equation.

---

B-2-23.

$$\ddot{x} + \omega_n^2 x = t, \quad x(0) = 0, \quad \dot{x}(0) = 0$$

The Laplace transform of this differential equation is

$$s^2X(s) + \omega_n^2 X(s) = \frac{1}{s^2}$$

Solving this equation for  $X(s)$ , we obtain

$$X(s) = \frac{1}{s^2(s^2 + \omega_n^2)} = \left( \frac{1}{s^2} - \frac{1}{s^2 + \omega_n^2} \right) \frac{1}{\omega_n^2}$$

The inverse Laplace transform of  $X(s)$  is

$$x(t) = \frac{1}{\omega_n^2} \left( t - \frac{1}{\omega_n} \sin \omega_n t \right)$$

This is the solution of the given differential equation.

---

B-2-24.

$$2\ddot{x} + 2\dot{x} + x = 1, \quad x(0) = 0, \quad \dot{x}(0) = 2$$

The Laplace transform of this differential equation is

$$2[s^2X(s) - sx(0) - \dot{x}(0)] + 2[sX(s) - x(0)] + X(s) = \frac{1}{s}$$

# System Dynamics Solution Manual Ch 7

**James N. Spencer, George M.  
Bodner, Lyman H. Rickard**



## **System Dynamics Solution Manual Ch 7:**

**System Dynamics for Engineering Students** Nicolae Lobontiu, 2010-03-19 System Dynamics for Engineering Students Concepts and Applications discusses the basic concepts of engineering system dynamics Engineering system dynamics focus on deriving mathematical models based on simplified physical representations of actual systems such as mechanical electrical fluid or thermal and on solving the mathematical models The resulting solution is utilized in design or analysis before producing and testing the actual system The book discusses the main aspects of a system dynamics course for engineering students mechanical electrical and fluid and thermal system modeling the Laplace transform technique and the transfer function approach It also covers the state space modeling and solution approach modeling system dynamics in the frequency domain using the sinusoidal harmonic transfer function and coupled field dynamic systems The book is designed to be a one semester system dynamics text for upper level undergraduate students with an emphasis on mechanical aerospace or electrical engineering It is also useful for understanding the design and development of micro and macro scale structures electric and fluidic systems with an introduction to transduction and numerous simulations using MATLAB and SIMULINK The first textbook to include a chapter on the important area of coupled field systems Provides a more balanced treatment of mechanical and electrical systems making it appealing to both engineering specialties *Student Solutions Manual to Accompany Chemistry: Structure & Dynamics, 3rd Edition* James N. Spencer, George M. Bodner, Alexander Grushow, Lyman H. Rickard, 2005-03-24 Work more effectively and check solutions as you go along with the text This Student Solutions Manual is designed to accompany Spencer s Chemistry Structure they begin with data and a spirit of intellectual curiosity In much the same way Spencer Bodner and Rickard s Chemistry Structure and Dynamics 3rd Edition presents data and challenges students to derive the models Built on the recommendations of the American Chemical Society s Task Force on the General Chemistry Curriculum this innovative approach helps students get a feel for how chemists approach problems in the real world This new Third Edition is now revised with a new chapter on materials science and increased coverage of nuclear chemistry Engineering System Dynamics Forbes T. Brown, 2006-08-15 For today s students learning to model the dynamics of complex systems is increasingly important across nearly all engineering disciplines First published in 2001 Forbes T Brown s Engineering System Dynamics A Unified Graph Centered Approach introduced students to a unique and highly successful approach to modeling system dynamics using bond graphs Updated with nearly one third new material this second edition expands this approach to an even broader range of topics What s New in the Second Edition In addition to new material this edition was restructured to build students competence in traditional linear mathematical methods before they have gone too far into the modeling that still plays a pivotal role New topics include magnetic circuits and motors including simulation with magnetic hysteresis extensive new material on the modeling analysis and simulation of distributed parameter systems kinetic energy in thermodynamic systems and Lagrangian and Hamiltonian methods MATLAB figures

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**Local Applications of the Ecological Approach To Human-Machine Systems** Peter A. Hancock, John M. Flach, Jeff Caird, Kim J.

Vicente, 2018-05-02 There is a growing consensus in the human factors ergonomics community that human factors research has had little impact on significant applied problems Some have suggested that the problem lies in the fact that much HF E research has been based on the wrong type of psychology an information processing view of psychology that is reductionistic and context free Ecological psychology offers a viable alternative presenting a richer view of human behavior that is holistic and contextualized The papers presented in these two volumes show the conceptual impact that ecological psychology can have on HF E as well as presenting a number of specific examples illustrating the ecological approach to human machine systems It is the first collection of papers that explicitly draws a connection between these two fields While work in this area is only just beginning the evidence available suggests that taking an ecological approach to human factors ergonomics helps bridge the existing gap between basic research and applied problems

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