

2.15

$$(a) \quad \omega_n = \sqrt{4k/M}$$

$$(b) \quad \omega_n = \sqrt{4k/(M+m)}$$

Initial conditions:

Velocity of falling mass $m = v = \sqrt{2gl}$ ($\because v^2 - u^2 = 2gl$)
 $x=0$ at static equilibrium position.

$$x_0 = x(t=0) = -\frac{\text{weight}}{k_{eq}} = -\frac{mg}{4k}$$

Conservation of momentum: $(M+m) \dot{x}_0 = m v = m \sqrt{2gl}$
 $\dot{x}_0 = \dot{x}(t=0) = \frac{m}{M+m} \sqrt{2gl}$

Complete solution: $x(t) = A_0 \sin(\omega_n t + \phi_0)$

where $A_0 = \sqrt{x_0^2 + \left(\frac{\dot{x}_0}{\omega_n}\right)^2} = \sqrt{\frac{m^2 g^2}{16 k^2} + \frac{m^2 gl}{2k(M+m)}}$

and $\phi_0 = \tan^{-1}\left(\frac{x_0 \omega_n}{\dot{x}_0}\right) = \tan^{-1}\left(\frac{-\sqrt{g}}{\sqrt{glk(M+m)}}\right)$

2.16

(a) Velocity of anvil $= v = 50 \text{ ft/sec} = 600 \text{ in/sec}$. $x = 0$ at static equilibrium position.

$$x_0 = x(t=0) = -\frac{\text{weight}}{k_{eq}} = -\frac{mg}{4k}$$

Conservation of momentum:

$$(M+m) \dot{x}_0 = m v \quad \dot{x}_0 = \dot{x}(t=0) = \frac{m v}{M+m}$$

Natural frequency:

$$\frac{4k}{M+m}$$

Complete solution:

$$x(t) = A_0 \sin(\omega_n t + \phi_0)$$

where

$$A_0 = \left\{ x_0^2 + \left(\frac{\dot{x}_0}{\omega_n} \right)^2 \right\}^{\frac{1}{2}} = \left\{ \frac{m^2 g^2}{16 k^2} + \frac{m^2 v^2}{(M+m) 4k} \right\}^{\frac{1}{2}}$$

and

$$\phi_0 = \tan^{-1}\left(\frac{x_0 \omega_n}{\dot{x}_0}\right) = \tan^{-1}\left(-\frac{mg}{4k} \sqrt{\frac{4k}{(M+m)}} \frac{(M+m)}{m v}\right) = \tan^{-1}\left(-\frac{g \sqrt{M+m}}{v \sqrt{4k}}\right)$$

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Loss Models: From Data to Decisions, 4e Student Solutions Manual Stuart A. Klugman, Harry H. Panjer, Gordon E. Willmot, 2014-08-21 Student Solutions Manual to Accompany Loss Models From Data to Decisions Fourth Edition This volume is organised around the principle that much of actuarial science consists of the construction and analysis of mathematical models which describe the process by which funds flow into and out of an insurance system Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter The Publishers' Trade List Annual, 1987 Complications of Surgery for Male Urinary and Fecal Incontinence Salvatore Siracusano, Giuseppe Dodi, Michele Pennisi, Christian Gozzi, Antonio Luigi Pastore, Maria Angela Cerruto, 2020-06-21 This text provides a comprehensive and multidisciplinary state of the art review of complications related to surgical procedures for male urinary and fecal incontinence As surgery has evolved over the decades newer and at times unexpected intraoperative and long term complications have arisen Specialists who are unfamiliar with them need to know how to manage these specific complications and more importantly how to avoid them in the course of their future practice This volume provides an essential guide for all urologists proctologists and surgeons operating on male patients with urinary and fecal incontinence Master Analytical Manual: Ionic methods Oak Ridge National Laboratory. Analytical Chemistry Division, 1958 **Solar Energy Update**, 1983-03 **Essential Neuropsychology: A Concise Handbook for Adult Practitioners** Jonathan DeRight, 2021-12-09 The goal of this book is to provide brief but comprehensive information that can aid in rapid differential diagnosis and allow for more thorough follow up if needed This guide is intended to fit easily into the pocket of a lab coat or on your desk giving readers an efficient way to find information about a specific disease or disorder to prepare for an upcoming case The book is divided into two parts Part 1 involves general psychometric and reference information including score classifications formulas for score conversion likelihood chaining and reliable change psychometric data for stand alone and embedded PVTs and the effects of common medications on cognition Part 2 of the

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