

EXAMPLE 12.9

At any instant the horizontal position of the weather balloon in Fig. 12-18a is defined by $x = (8t)$ ft, where t is in seconds. If the equation of the path is $y = x^2/10$, determine the magnitude and direction of the velocity and the acceleration when $t = 2$ s.

SOLUTION

Velocity. The velocity component in the x direction is

$$v_x = \dot{x} = \frac{d}{dt}(8t) = 8 \text{ ft/s} \rightarrow$$

To find the relationship between the velocity components we will use the chain rule of calculus. When $t = 2$ s, $x = 8(2) = 16$ ft, Fig. 12-18a, and so

$$v_y = \dot{y} = \frac{d}{dt}(x^2/10) = 2x\dot{x}/10 = 2(16)(8)/10 = 25.6 \text{ ft/s} \uparrow$$

When $t = 2$ s, the magnitude of velocity is therefore

$$v = \sqrt{(8 \text{ ft/s})^2 + (25.6 \text{ ft/s})^2} = 26.8 \text{ ft/s} \quad \text{Ans.}$$

The direction is tangent to the path, Fig. 12-18b, where

$$\theta_v = \tan^{-1} \frac{v_y}{v_x} = \tan^{-1} \frac{25.6}{8} = 72.6^\circ \quad \text{Ans.}$$

Acceleration. The relationship between the acceleration components is determined using the chain rule. (See Appendix C.) We have

$$a_x = \dot{v}_x = \frac{d}{dt}(8) = 0$$

$$\begin{aligned} a_y = \dot{v}_y &= \frac{d}{dt}(2x\dot{x}/10) = 2(\dot{x}\dot{x}/10) + 2x(\ddot{x})/10 \\ &= 2(8)^2/10 + 2(16)(0)/10 = 12.8 \text{ ft/s}^2 \uparrow \end{aligned}$$

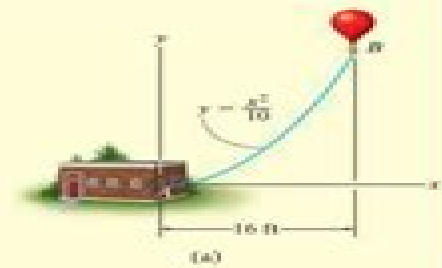
Thus,

$$a = \sqrt{(0)^2 + (12.8)^2} = 12.8 \text{ ft/s}^2 \quad \text{Ans.}$$

The direction of $\mathbf{a}$, as shown in Fig. 12-18c, is

$$\theta_a = \tan^{-1} \frac{12.8}{0} = 90^\circ \quad \text{Ans.}$$

NOTE: It is also possible to obtain v_y and a_y by first expressing $y = f(t) = (8t)^2/10 = 6.4t^2$ and then taking successive time derivatives.



(a)



(b)



Fig. 12-18

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Karin Nielsen-Saines



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Fundamentals of Biomechanics Nihat Özkaya, Dawn Leger, David Goldsheyder, Margareta Nordin, 2016-12-24 This textbook integrates the classic fields of mechanics statics dynamics and strength of materials using examples from biology and medicine The book is excellent for teaching either undergraduates in biomedical engineering programs or health care professionals studying biomechanics at the graduate level Extensively revised from a successful third edition *Fundamentals of Biomechanics* features a wealth of clear illustrations numerous worked examples and many problem sets The book provides the quantitative perspective missing from more descriptive texts without requiring an advanced background in mathematics It will be welcomed for use in courses such as biomechanics and orthopedics rehabilitation and industrial engineering and occupational or sports medicine This book Introduces the fundamental concepts principles and methods that must be understood to begin the study of biomechanics Reinforces basic principles of biomechanics with repetitive exercises in class and homework assignments given throughout the textbook Includes over 100 new problem sets with solutions and illustrations

Essentials of Dynamics and Vibrations John Billingsley, 2025-03-02 This updated second edition brings the complex mathematics of three dimensional dynamics to life with real time simulations making the equations easier to grasp Covering core topics in mechanical engineering such as kinematics dynamics vibration analysis gyroscopes gears and Euler's equations the book offers a clear and engaging approach for students professionals and enthusiasts alike With a focus on practical applications it explains everything from the laws of motion to motors and mechanisms providing a comprehensive understanding of mechanical systems New to this edition is a chapter on Power Energy and Perpetual Motion which reveals intriguing comparisons such as the energy needed to lift water versus the heat required to warm it The final chapter Rocket Science has been expanded to debunk myths about black holes and gravity humorously addressing science fiction misconceptions while proposing exciting space projects

Mechanics Using Matlab Aayushman Dutta, 2025-02-20 *Mechanics Using Matlab* An Introductory Guide bridges the gap between fundamental principles of mechanics and their practical implementation using Matlab a powerful computational tool widely used in engineering and scientific applications We offer an invaluable resource for students educators and professionals seeking to deepen their understanding of classical mechanics and enhance their problem solving skills through computational techniques We begin by laying a solid foundation in core concepts of mechanics including kinematics dynamics and energy principles Through clear explanations and illustrative examples we guide readers through essential theories and equations governing the motion of particles and rigid bodies Emphasis is placed on developing a conceptual understanding of the underlying physics reinforced through Matlab based exercises and simulations One of the key strengths of our book lies in its integration of theory with practical application Each chapter elucidates the theoretical framework and demonstrates how to implement it computationally using Matlab scripts and functions Topics covered include particle dynamics projectile motion Newton's laws of motion circular

motion conservation principles rotational dynamics oscillations and orbital mechanics Throughout the text Matlab code snippets are provided alongside explanations allowing readers to gain hands on experience in solving mechanics problems numerically This interactive approach reinforces theoretical concepts and equips readers with valuable computational skills With worked examples and practice problems Mechanics Using Matlab An Introductory Guide challenges readers and reinforces their understanding This book serves as a practical reference for engineers scientists and researchers in fields where mechanics plays a crucial role

Theory of Gyroscopic Effects for Rotating Objects Ryspek Usubamatov, 2020-08-29 This book highlights an analytical solution for the dynamics of axially symmetric rotating objects It also presents the theory of gyroscopic effects explaining their physics and using mathematical models of Euler's form for the motion of movable spinning objects to demonstrate these effects The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal common inertial Coriolis forces as well as the change in their angular momentum These torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects like rings cones spheres paraboloids and propellers of different designs Lastly the mathematical models for the gyroscopic effects are validated by practical tests

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Engineering Dynamics N. Jeremy Kasdin, Derek A. Paley, 2011-02-22 An accessible yet rigorous introduction to engineering dynamics This textbook introduces undergraduate students to engineering dynamics using an innovative approach that is at once accessible and comprehensive Combining the strengths of both beginner and advanced dynamics texts this book has students solving dynamics problems from the very start and gradually guides them from the basics to increasingly more challenging topics without ever sacrificing rigor Engineering Dynamics spans the full range of mechanics problems from one dimensional particle kinematics to three dimensional rigid body dynamics including an introduction to Lagrange's and Kane's methods It skillfully blends an easy to read conversational style with careful attention to the physics and mathematics of engineering dynamics and emphasizes the formal systematic notation students need to solve problems correctly and succeed in more advanced courses This richly illustrated textbook features numerous real world examples and problems incorporating a wide range of difficulty ample use of MATLAB for solving problems helpful tutorials suggestions for further reading and detailed appendixes Provides an accessible yet rigorous introduction to engineering dynamics Uses an explicit vector based notation to facilitate understanding Professors A supplementary Instructor's Manual is available for this book It is restricted to teachers using the

text in courses For information on how to obtain a copy refer to https://press.princeton.edu/class_use/solutions.html

Statics with MATLAB® Dan B. Marghitu, Mihai Dupac, Nels H. Madsen, 2013-06-13 Engineering mechanics involves the development of mathematical models of the physical world Statics addresses the forces acting on and in mechanical objects and systems Statics with MATLAB develops an understanding of the mechanical behavior of complex engineering structures and components using MATLAB to execute numerical calculations and to facilitate analytical calculations MATLAB is presented and introduced as a highly convenient tool to solve problems for theory and applications in statics Included are example problems to demonstrate the MATLAB syntax and to also introduce specific functions dealing with statics These explanations are reinforced through figures generated with MATLAB and the extra material available online which includes the special functions described This detailed introduction and application of MATLAB to the field of statics makes Statics with MATLAB a useful tool for instruction as well as self study highlighting the use of symbolic MATLAB for both theory and applications to find analytical and numerical solutions

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Computer Simulation of Thermal Plant Operations Peter O'Kelly, 2012-11-27 This book describes thermal plant simulation that is dynamic simulation of plants which produce exchange and otherwise utilize heat as their working medium Directed at chemical mechanical and control engineers involved with operations control and optimization and operator training the book gives the mathematical formulation and use of simulation models of the equipment and systems typically found in these industries The author has adopted a fundamental approach to the subject The initial chapters provide an overview of simulation concepts and describe a suitable computer environment Reviews of relevant numerical computation methods and fundamental thermodynamics are followed by a detailed examination of the basic conservation equations The bulk of the book is concerned with development of specific simulation models Care is taken to trace each model derivation path from the basic underlying physical equations explaining simplifying and restrictive assumptions as they arise and relating the model coefficients to the physical dimensions and physical properties of the working materials Numerous photographs of real equipment complement the text and most models are illustrated by numerical examples based on typical real plant operations

MECANISMOS PLANOS Edgar Absalón Torres Barahona, Edwin Francis Cárdenas Correa, 2024-09-12 Este libro presenta tres alternativas para el análisis cinemático de mecanismos planos: método gráfico, análisis vectorial y análisis por el método de los miembros complejos con el fin de desarrollar una comprensión amplia y básica de la cinemática de los mecanismos

Est dirigido a profesionales y estudiantes de ingeniería como un referente que indica a través de diferentes ejercicios desarrollados alternativas para el análisis de mecanismos. En el primer capítulo y en la primera parte de los demás se hace un breve análisis de los fundamentos necesarios para abordar las tres metodologías de análisis. Además en la parte final del primer capítulo se hace una presentación de los mecanismos analizados cinemáticamente en los capítulos subsiguientes. Con el método gráfico del segundo capítulo se hace una presentación básica para el análisis cinemático de mecanismos en una posición particular. Este método además se utiliza como referencia para validar los resultados de otras metodologías como la vectorial o de número complejo presentadas en los capítulos 3 y 4. El análisis vectorial del capítulo 3 hace uso de vectores para representar las posiciones, las velocidades y las aceleraciones así como para representar relaciones de dirección y sentido entre distintos elementos del mecanismo. De forma similar al capítulo 3 en el capítulo 4 se emplean números complejos para representar las magnitudes vectoriales simplificando el cálculo de las cantidades involucradas. Para finalizar en el capítulo 5 se presenta el uso de las herramientas computacionales MATLAB o GNU Octave para programar los modelos matemáticos desarrollados en los capítulos 3 y 4 y establecer el comportamiento de un mecanismo en función de las condiciones de entrada. Los resultados obtenidos en este capítulo son validados mediante el uso del método gráfico del capítulo 2. En general este texto sobre cinemática de mecanismos planos proporciona una base teórica y práctica para comprender cómo se mueven y posicionan los componentes de un mecanismo utilizando herramientas analíticas y gráficas para el estudio de sistemas mecánicos.

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