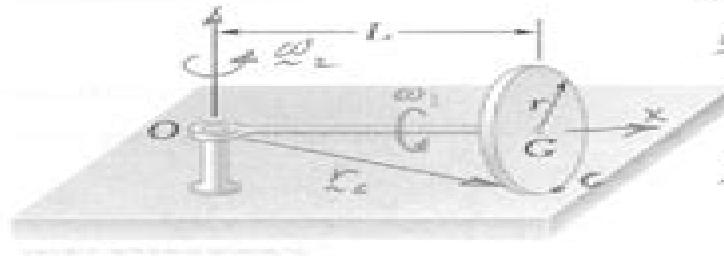


18.11 Determine the angular momentum  $\underline{H}_O$  of the disk of sample problem 18.2 from the expression obtained for its linear momentum  $\underline{m}\mathbf{v}$  and its angular momentum  $\underline{H}_G$ , using Eqs. (18.11). Verify that the result obtained is the same as that obtained by direct computation.



$$\underline{I}_G = I \hat{\tau} \quad \underline{I}_{G/O} = R \hat{j}$$

$$\omega_1 = \omega_1 \hat{\tau} \quad \omega_2 = -\omega_2 \hat{j}$$

$$\underline{I}_G = \underline{I}_G + \underline{I}_{G/O} = I \hat{\tau} - R \hat{j}$$

$$\underline{v}_G = \underline{\omega} \times \underline{I}_G = (-\omega_2 R + \omega_1 L) \hat{k} = 0$$

$$\omega_2 = \omega_1 \frac{L}{R}$$

$$\bar{I}_x = \frac{1}{2} m R^2 + I_x$$

$$\bar{I}_y = \frac{1}{4} m R^2; \quad I_y = \bar{I}_y + m L^2 = \frac{m R^2}{4} + L^2 m$$

$$\bar{I}_z = \frac{1}{4} m R^2; \quad I_z = \bar{I}_z + m L^2 = \frac{m R^2}{4} + m L^2$$

$$\begin{aligned} \underline{\omega} &= \underline{\omega}_1 + \underline{\omega}_2 \\ &= \omega_1 \hat{\tau} - \omega_2 \hat{j} \end{aligned}$$

$$\begin{aligned} H_{Ox} &= I_x \omega_x \quad H_{Oy} = I_y \omega_y \quad H_{Oz} = I_z \omega_z = 0 \\ &= \frac{1}{2} m R^2 \omega_1 - m \frac{R}{L} \omega_1 (R^2 + L^2) \end{aligned}$$

$$\begin{aligned} H_O &= \frac{1}{2} m R^2 \omega_1 \hat{\tau} \\ &\quad - m \frac{R}{L} \omega_1 (R^2 + L^2) \hat{j} \end{aligned}$$

$$\underline{v}_G = \underline{\omega} \times \underline{I}_G = R \omega_1 \hat{k}$$

$$H_O = H_G + \underline{I}_G \times (m \underline{v}_G)$$

$$H_G = \bar{I}_x \omega_x \hat{\tau} + \bar{I}_y \omega_y \hat{j} + \bar{I}_z \omega_z \hat{k} = \frac{1}{2} m R^2 \omega_1 \hat{\tau} - \frac{1}{2} m R^2 \omega_1 \frac{R}{L} \hat{j}$$

$$\underline{I}_G \times m \underline{v}_G = I \hat{\tau} \times (m R \omega_1 \hat{k}) = -m R L \omega_1 \hat{j}$$

$$H_O = \frac{1}{2} m R^2 \omega_1 \hat{\tau} - \left( \frac{1}{2} m R^2 \omega_1 \frac{R}{L} + m R L \omega_1 \right) \hat{j} \text{ clockwise}$$

# Engineering Dynamics Notes

**LM Reder**

## Engineering Dynamics Notes:

**Engineering Mechanics I** Y. M. Haddad,2011      **Earthquake Engineering Research Center Library Printed Catalog** University of California, Berkeley. Earthquake Engineering Research Center. Library,1975      **Library Notes**  
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BEER,2010-12-16 Ebook Vector Mechanics Engineering Dynamics SI      **Catalogue for the Academic Year** Naval Postgraduate School (U.S.),1957      **Dynamics of the Rigid Solid with General Constraints by a Multibody Approach**  
Nicolae Pandrea,Nicolae-Doru Stanescu,2016-05-03 Covers both holonomic and non holonomic constraints in a study of the mechanics of the constrained rigid body Covers all types of general constraints applicable to the solid rigid Performs calculations in matrix form Provides algorithms for the numerical calculations for each type of constraint Includes solved numerical examples Accompanied by a website hosting programs      Racing Chassis and Suspension Design Carroll Smith,2004-05-21 Hand selected by racing engineer legend Carroll Smith the 28 SAE Technical Papers in this book focus on the chassis and suspension design of pure racing cars an area that has traditionally been farmed out to independent designers or firms since the early 1970s Smith believed that any discussion of vehicle dynamics must begin with a basic understanding of the pneumatic tire the focus of the first chapter The racing tire connects the racing car to the track surface by only the footprints of its four tires Through the tires the driver receives most of the sensory information needed to maintain or regain control of the race car at high force levels The second chapter focusing on suspension design is an introduction to this complex and fascinating subject Topics covered include chassis stiffness and flexibility suspension tuning on the cornering of a Winston Cup race car suspension kinematics and vehicle dynamics of road racing cars Chapter 3 addresses the design of the racing chassis design and how aerodynamics affect the chassis and the final chapter on materials brings out the fact that the modern racing car utilizes carbon construction to the maximum extent allowed by regulations These technical papers written between 1971 and 2003 offer what Smith believed to be the best and most practical nuggets of racing chassis and suspension design information      *Lecture Notes in Rotorcraft Engineering* Antonio Filippone,George Barakos,2023-01-27 This textbook is a multi disciplinary compendium that includes several aspects of rotorcraft technology It introduces the reader to the aerodynamic aspects of rotary wings and presents experimental techniques for aerodynamics The chapters also cover rotorcraft engines and rotorcraft steady state flight performance and stability It explores several aspects of the tiltrotor configuration and lists challenges in their design modelling and simulation The reader will also find an introductory overview of flight control systems for rotorcraft as well as the conceptual and preliminary design concepts for a conventional helicopter This textbook contains video recordings of computer simulations that can be used alongside the main text      *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

Military Engineering Great Britain. War Office,1913 Lectures

Notes on Advanced Structured Materials 2 Holm Altenbach,Leonhard Hitzler,Michael Johlitz,Markus Merkel,Andreas Öchsner,2024-03-19 The postgraduate seminar series on advanced structured materials is designed to facilitate teaching and informal discussion in a supportive and friendly environment The seminar provides a forum for postgraduate students to present their research results and train their presentation and discussion skills Furthermore it allows for extensive discussion of current research being conducted in the wider area of advanced structured materials Doing so it builds a wider postgraduate community and offers networking opportunities for early career researchers In addition to focused lectures the seminar provides specialized teaching overview lectures from experienced senior academics The 2023 Postgraduate Seminar entitled Advanced Structured Materials Development Manufacturing Characterization Applications was held from 20th till 24th February 2023 in Barcelona The presented postgraduate lectures had a strong focus on polymer mechanics composite materials and additive manufacturing

100 Volumes of 'Notes on Numerical Fluid Mechanics' Ernst Heinrich

Hirschel,Egon Krause,2009-05-19 In a book that will be required reading for engineers physicists and computer scientists the editors have collated a number of articles on fluid mechanics written by some of the world's leading researchers and practitioners in this important subject area

Handbook of Fluid Dynamics Richard W. Johnson,2016-04-06

Handbook of Fluid Dynamics offers balanced coverage of the three traditional areas of fluid dynamics theoretical computational and experimental complete with valuable appendices presenting the mathematics of fluid dynamics tables of dimensionless numbers and tables of the properties of gases and vapors Each chapter introduces a different fluid dynamics topic discusses the pertinent issues outlines proven techniques for addressing those issues and supplies useful references for further research Covering all major aspects of classical and modern fluid dynamics this fully updated Second Edition Reflects the latest fluid dynamics research and engineering applications Includes new sections on emerging fields most notably micro and nanofluidics Surveys the range of numerical and computational methods used in fluid dynamics analysis and design Expands the scope of a number of contemporary topics by incorporating new experimental methods more numerical approaches and

additional areas for the application of fluid dynamics Handbook of Fluid Dynamics Second Edition provides an indispensable resource for professionals entering the field of fluid dynamics The book also enables experts specialized in areas outside fluid dynamics to become familiar with the field     **The Monthly Army List** Great Britain. Army,1914     **Lectures Notes on Advanced Structured Materials 3** Holm Altenbach,Leonhard Hitzler,Michael Johlitz,Markus Merkel,Andreas

Öchsner,2025-02-27 This book is designed to facilitate teaching and informal discussion in a supportive and friendly environment The seminar provides a forum for postgraduate students to present their research results and train their presentation and discussion skills Furthermore it allows for extensive discussion of current research being conducted in the wider area of advanced structured materials Doing so it builds a wider postgraduate community and offers networking opportunities for early career researchers In addition to focused lectures the seminar provides specialized teaching overview lectures from experienced senior academics The 2023 Postgraduate Seminar entitled Advanced Structured Materials Development Manufacturing Characterization Applications was held from 20 till 24 May 2024 in Porto The presented postgraduate lectures had a strong focus on polymer mechanics composite materials and additive manufacturing

**Revised Steam and Gas Engineering Laboratory Notes** W. Black,1916     **Vibration Control Engineering** Ernesto Novillo,2021-12-09 This book applies vibration engineering to turbomachinery covering installation maintenance and operation With a practical approach based on clear theoretical principles and formulas the book is an essential how to guide for all professional engineers dealing with vibration issues within turbomachinery Vibration problems in turbines large fans blowers and other rotating machines are common issues within turbomachinery Applicable to industries such as oil and gas mining cement pharmaceutical and naval engineering the ability to predict vibration based on frequency spectrum patterns is essential for many professional engineers In this book the theory behind vibration is clearly detailed providing an easy to follow methodology through which to calculate vibration propagation Describing lateral and torsional vibration and how this impacts turbine shaft integrity the book uses mechanics of materials theory and formulas alongside the matrix method to provide clear solutions to vibration problems Additionally it describes how to carry out a risk assessment of vibration fatigue Other topics covered include vibration control techniques the design of passive and active absorbers and rigid non rigid and Z foundations The book will be of interest to professionals working with turbomachinery naval engineering corps and those working on ISO standards 10816 and 13374 It will also aid mechanical engineering students working on vibration and machine design     *The Engineer ,1889*

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