

PROBLEM 3-20

Statement: Figure P3-6 shows a "V-link" off-loading mechanism for a paper roll conveyor. Design a pin-jointed linkage to replace the air cylinder driver that will rotate the rocker arm and V-link through the 90 deg motion shown. Keep the fixed pivots as close to the existing frame as possible. Your fourbar linkage should be Grashof and be in toggle at each extreme position of the rocker arm.

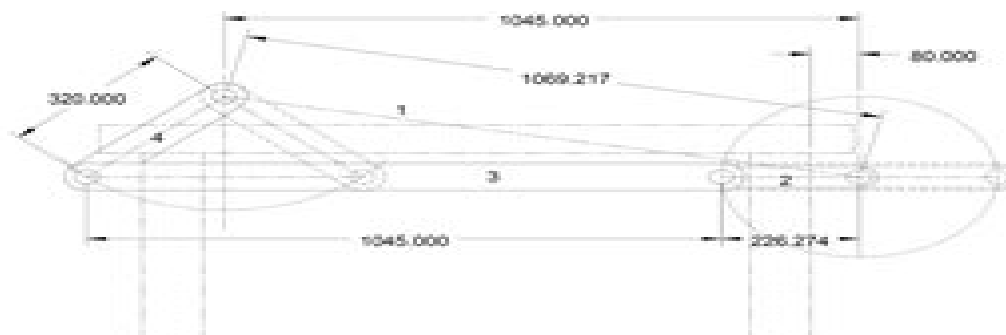
Given: Dimensions scaled from Figure P3-6:
Rocker arm (link 4) distance between pin centers: $L_4 := 320\text{-mm}$

Solution: See Figure P3-6 and Mathcad file P0320.

Design choices:

1. Use the same rocker arm that was used with the air cylinder driver.
2. Place the pivot O_2 80 mm to the right of the right leg and on a horizontal line with the center of the pin on the rocker arm.
3. Design for two-position, 90 deg of output rocker motion with no quick return, similar to Example 3-2.

1. Draw the rocker arm (link 4) O_4B in both extreme positions, B_1 and B_2 , in any convenient location such that the desired angle of motion θ_4 is subtended. In this solution, link 4 is drawn such that the two extreme positions each make an angle of 45 deg to the vertical.
2. Draw the chord B_1B_2 and extend it in any convenient direction. In this solution it was extended horizontally to the left.
3. Mark the center O_2 on the extended line such that it is 80 mm to the right of the right leg. This will allow sufficient space for a supporting pillow block bearing.
4. Bisect the line segment B_1B_2 and draw a circle of that radius about O_2 .
5. Label the two intersections of the circle and extended line B_1B_2 , A_1 and A_2 .
6. Measure the length of the coupler (link 3) as A_1B_1 or A_2B_2 . From the graphical solution, $L_3 := 1045\text{-mm}$
7. Measure the length of the crank (link 2) as O_2A_1 or O_2A_2 . From the graphical solution, $L_2 := 226.274\text{-mm}$
8. Measure the length of the ground link (link 1) as O_2O_4 . From the graphical solution, $L_1 := 1069.217\text{-mm}$



9. Find the Grashof condition.

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Kinematics, Dynamics, and Design of Machinery Kenneth J. Waldron, Gary L. Kinzel, Sunil K. Agrawal, 2016-04-25

Kinematics Dynamics and Design of Machinery Third Edition presents a fresh approach to kinematic design and analysis and is an ideal textbook for senior undergraduates and graduates in mechanical automotive and production engineering Presents the traditional approach to the design and analysis of kinematic problems and shows how GCP can be used to solve the same problems more simply Provides a new and simpler approach to cam design Includes an increased number of exercise problems Accompanied by a website hosting a solutions manual teaching slides and MATLAB programs

Mechanical Design of Machine Components Ansel C. Ugural, 2016-04-27 Analyze and Solve Real World Machine Design Problems Using SI Units Mechanical Design of Machine Components Second Edition SI Version strikes a balance between method and theory and fills a void in the world of design Relevant to mechanical and related engineering curricula the book is useful in college classes and also serves as a reference for practicing engineers This book combines the needed engineering mechanics concepts analysis of various machine elements design procedures and the application of numerical and computational tools It demonstrates the means by which loads are resisted in mechanical components solves all examples and problems within the book using SI units and helps readers gain valuable insight into the mechanics and design methods of machine components The author presents structured worked examples and problem sets that showcase analysis and design techniques includes case studies that present different aspects of the same design or analysis problem and links together a variety of topics in successive chapters SI units are used exclusively in examples and problems while some selected tables also show U S customary USCS units This book also presumes knowledge of the mechanics of materials and material properties New in the Second Edition Presents a study of two entire real life machines Includes Finite Element Analysis coverage supported by examples and case studies Provides MATLAB solutions of many problem samples and case studies included on the book s website Offers access to additional information on selected topics that includes website addresses and open ended web based problems Class tested and divided into three sections this comprehensive book first focuses on the fundamentals and covers the basics of loading stress strain materials deflection stiffness and stability This includes basic concepts in design and analysis as well as definitions related to properties of engineering materials Also discussed are detailed equilibrium and energy methods of analysis for determining stresses and deformations in variously loaded members The second section deals with fracture mechanics failure criteria fatigue phenomena and surface damage of components The final section is dedicated to machine component design briefly covering entire machines The fundamentals are applied to specific elements such as shafts bearings gears belts chains clutches brakes and springs

Mechanical Design of Machine Components Ansel Ugural, 2015-01-08 Mechanical Design of Machine Components Second Edition strikes a balance between theory and application and prepares students for more advanced study or professional practice It

outlines the basic concepts in the design and analysis of machine elements using traditional methods based on the principles of mechanics of materials The text combine *Analysis of Machine Elements Using SOLIDWORKS Simulation 2024* Shahin S. Nudehi, John R. Steffen, 2024 Designed for first time SOLIDWORKS Simulation users Focuses on examples commonly found in Design of Machine Elements courses Many problems are accompanied by solutions using classical equations Combines step by step tutorials with detailed explanations of why each step is taken Analysis of Machine Elements Using SOLIDWORKS Simulation 2024 is written primarily for first time SOLIDWORKS Simulation 2024 users who wish to understand finite element analysis capabilities applicable to stress analysis of mechanical elements The focus of examples is on problems commonly found in introductory undergraduate Design of Machine Elements or similarly named courses In order to be compatible with most machine design textbooks this text begins with problems that can be solved with a basic understanding of mechanics of materials Problem types quickly migrate to include states of stress found in more specialized situations common to a design of mechanical elements course Paralleling this progression of problem types each chapter introduces new software concepts and capabilities Many examples are accompanied by problem solutions based on use of classical equations for stress determination Unlike many step by step user guides that only list a succession of steps which if followed correctly lead to successful solution of a problem this text attempts to provide insight into why each step is performed This approach amplifies two fundamental tenets of this text The first is that a better understanding of course topics related to stress determination is realized when classical methods and finite element solutions are considered together The second tenet is that finite element solutions should always be verified by checking whether by classical stress equations or experimentation Each chapter begins with a list of learning objectives related to specific capabilities of the SOLIDWORKS Simulation program introduced in that chapter Most software capabilities are repeated in subsequent examples so that users gain familiarity with their purpose and are capable of using them in future problems All end of chapter problems are accompanied by evaluation check sheets to facilitate grading assignments **Analysis of Machine Elements Using**

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Analysis of Machine Elements Using SOLIDWORKS Simulation 2018 Shahin Nudehi, John Steffen, 2018

Analysis of Machine Elements Using SOLIDWORKS Simulation 2018 is written primarily for first time SOLIDWORKS Simulation 2018 users who wish to understand finite element analysis capabilities applicable to stress analysis of mechanical elements The focus of examples is on problems commonly found in introductory undergraduate Design of Machine Elements or similarly named courses In order to be compatible with most machine design textbooks this text begins with problems that can be solved with a basic understanding of mechanics of materials Problem types quickly migrate to include states of stress found in more specialized situations common to a design of mechanical elements course Paralleling this progression of problem types each chapter introduces new software concepts and capabilities Many examples are accompanied by problem solutions based on use of classical equations for stress determination Unlike many step by step user guides that only list a succession of steps which if followed correctly lead to successful solution of a problem this text attempts to provide insight into why each step is performed This approach amplifies two fundamental tenets of this text The first is that a better understanding of course topics related to stress determination is realized when classical methods and finite element solutions are considered together The second tenet is that finite element solutions should always be verified by checking whether by classical stress equations or experimentation Each chapter begins with a list of learning objectives related to specific capabilities of the SOLIDWORKS Simulation program introduced in that chapter Most software capabilities are repeated in subsequent examples so that users gain familiarity with their purpose and are capable of using them in future problems All end of chapter problems are accompanied by evaluation check sheets to facilitate grading assignments New in the 2018 Edition The 2018 edition of this book features a new chapter exploring fatigue analysis using stress life methods Understanding the fatigue life of a product is a critical part of the design process This chapter focuses on the inputs needed to define a fatigue analysis in SOLIDWORKS Simulation and the boundary conditions necessary to obtain valid results

Practical Solution of Torsional Vibration Problems William Ker Wilson,1956 Applied Numerical Methods for Engineers and Scientists Singiresu S. Rao,2002 This book includes over 800 problems including open ended project type and design problems Chapter topics include Introduction to Numerical Methods Solution of Nonlinear Equations Simultaneous Linear Algebraic Equations Solution of Matrix Eigenvalue Problem and more Midwest The Draughtsman ,1946

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emphasizing the synthesis and design aspects of machine elements The book points out the commonality of the analytical approaches needed to design a wide variety of elements and emphasizes the use of computer aided engineering as an approach to the design and analysis of these classes of problems About 100 new problems will be added throughout the book and certain topics are updated and enhanced Who's who in Engineering ,1922 The Publishers' Trade List Annual ,1985 *Books in Print* ,1981 English Mechanic and World of Science ,1879 **The Engineer** ,1872

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