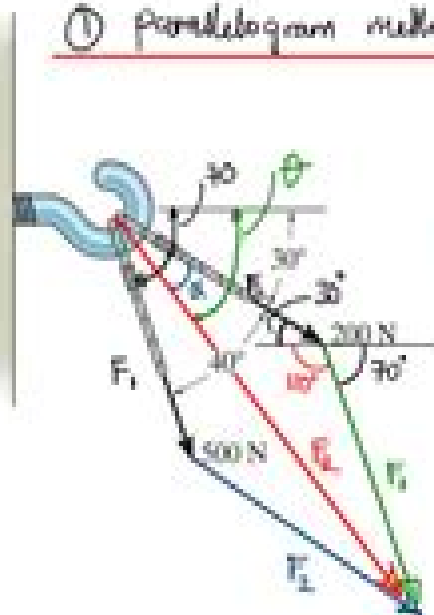


F2-2. Two forces act on the hook. Determine the magnitude of the resultant force, and the direction measured clockwise from the x -axis.

① Parallelogram method; $F_1 = 500 \text{ N}$; $F_2 = 200 \text{ N}$



cosine law:

$$F_R = \sqrt{F_1^2 + F_2^2 - 2(F_1)(F_2) \cos(10^\circ + 30^\circ)}$$

$$F_R = 665.74 \text{ N}$$

$$\theta = 30^\circ + 28.87^\circ$$

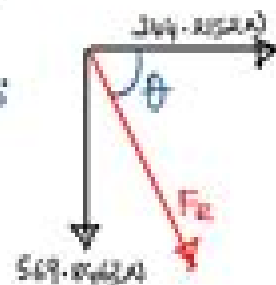
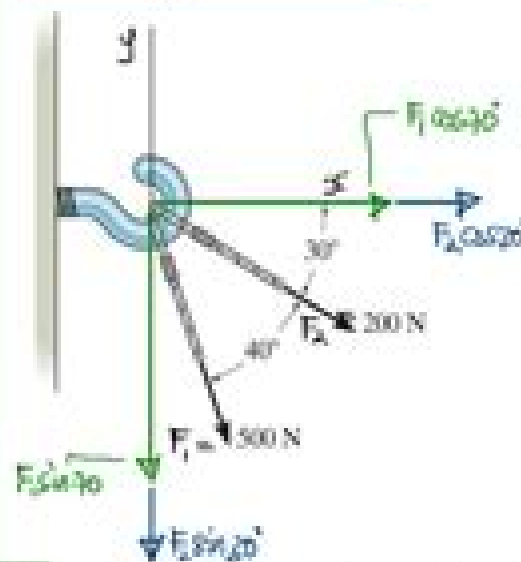
Sine law:

$$\frac{\sin \alpha}{F_1} = \frac{\sin(20^\circ + 10^\circ)}{F_R}$$

$$\alpha = \sin^{-1} \left[\frac{F_1 \sin(20^\circ + 10^\circ)}{F_R} \right] = 28.87^\circ$$

$$\theta = 58.87^\circ$$

② x & y components



$$F_R = \sqrt{F_{Rx}^2 + F_{Ry}^2}$$

$$F_R = 665.74 \text{ N}$$

$$\theta = \tan^{-1} \left(\frac{F_{Ry}}{F_{Rx}} \right)$$

$$\theta = 58.87^\circ$$

F	$x(N)$	$y(N)$
F_1	$500 \cos 30^\circ$	$-500 \sin 30^\circ$
F_2	$200 \cos 40^\circ$	$-200 \sin 40^\circ$
ΣF	244.252	-569.8463

$$F_{Rx} = 244.252 \text{ N}; F_{Ry} = -569.8463 \text{ N}$$

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Léo Pomar



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Engineering Mechanics R. C. Hibbeler, 2010 This volume presents the theory and applications of engineering

mechanics Discussion of the subject areas of statics and dynamics covers such topics as engineering applications of the principles of static equilibrium of force systems acting on particles and rigid bodies structural analysis of trusses frames and machines forces in beams dry friction centroids and moments of inertia in addition to kinematics and kinetics of particles and rigid bodies Newtonian laws of motion work and energy and linear and angular momentum are also presented **Journal of Engineering Mechanics** ,2000 **Mechanobiology Handbook, Second Edition** Jiro Nagatomi,Eno Essien Ebong,2018-12-07 Mechanobiology the study of the effects of mechanics on biological events has evolved to answer numerous research questions Mechanobiology Handbook 2nd Edition is a reference book for engineers scientists and clinicians who are interested in mechanobiology and a textbook for senior undergraduate to graduate level students of this growing field Readers will gain a comprehensive review of recent research findings as well as elementary chapters on solid mechanics fluid mechanics and molecular analysis techniques The new edition presents in addition to the chapters of the first edition homework problem sets that are available online and reviews of research in uncovered areas Moreover the new edition includes chapters on statistical analysis design of experiments and optical imaging The editors of this book are researchers and educators in mechanobiology They realized a need for a single volume to assist course instructors as a guide for didactic teaching of mechanobiology to a diverse student body A mechanobiology course is frequently made up of both undergraduate and graduate students pursuing degrees in engineering biology or integrated engineering and biology Their goal was to present both the elementary and cutting edge aspects of mechanobiology in a manner that is accessible to students from many different academic levels and from various disciplinary backgrounds Moreover it is their hope that the readers of Mechanobiology Handbook 2nd Edition will find study questions at the end of each chapter useful for long term learning and further discussion Comprehensive collection of reviews of recent research Introductory materials in mechanics biology and statistics Discussion of pioneering and emerging mechanobiology concepts Presentation of cutting edge mechanobiology research findings across various fields and organ systems End of chapter study questions available online Considering the complexity of the mechanics and the biology of the human body most of the world of mechanobiology remains to be studied Since the field is still developing the Mechanobiology Handbook raises many different viewpoints and approaches with the intention of stimulating further research endeavours *The Commonwealth Engineer* ,1959

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Gray,2009-04-16 Plesha Gray and Costanzo s Engineering Mechanics Statics Dynamics presents the fundamental concepts clearly in a modern context using applications and pedagogical devices that connect with today s students The text features a problem solving methodology that is consistently used throughout all example problems This methodology helps students lay out the steps necessary to correct problem formulation and explains the steps needed to arrive at correct and realistic solutions Once students have fully mastered the basic concepts they are taught appropriate use of modern computational tools where applicable Further reinforcing the text s modern emphasis the authors have brought engineering design considerations into selected problems where appropriate This sensitizes students to the fact that engineering problems do not have a single answer and many different routes lead to a correct solution The first new mainstream text in engineering mechanics in nearly twenty years Plesha Gray and Costanzo s Engineering Mechanics Statics and Dynamics will help your students learn this important material efficiently and effectively *Australian Mechanical Engineering* ,1959 Technical Book Review Index ,1965 **The Chartered Mechanical Engineer** ,1961 **Books in Print Supplement** ,1979

General Aviation Aircraft Design Snorri Gudmundsson,2021-10-31 General Aviation Aircraft Design Second Edition continues to be the engineer s best source for answers to realistic aircraft design questions The book has been expanded to provide design guidance for additional classes of aircraft including seaplanes biplanes UAS high speed business jets and electric airplanes In addition to conventional powerplants design guidance for battery systems electric motors and complete electric powertrains is offered The second edition contains new chapters Thrust Modeling for Gas Turbines Longitudinal Stability and Control Lateral and Directional Stability and Control These new chapters offer multiple practical methods to simplify the estimation of stability derivatives and introduce hinge moments and basic control system design Furthermore all chapters have been reorganized and feature updated material with additional analysis methods This edition also provides an introduction to design optimization using a wing optimization as an example for the beginner Written by an engineer with more than 25 years of design experience professional engineers aircraft designers aerodynamicists structural analysts performance analysts researchers and aerospace engineering students will value the book as the classic go to for aircraft design The printed book is now in color with 1011 figures and illustrations Presents the most common methods for conceptual aircraft design Clear presentation splits text into shaded regions separating engineering topics from mathematical derivations and examples Design topics range from the new 14 CFR Part 23 to analysis of ducted fans All chapters feature updated material with additional analysis methods Many chapters have been reorganized for further help Introduction to design optimization is provided using a wing optimization as an example for the beginner Three new chapters are offered two of which focus on stability and control These offer multiple practical methods to simplify the estimation of stability derivatives The chapters introduce hinge moments and basic control system design Real world examples using aircraft such as the Cirrus SR 22 and Learjet 45 Abstract Journal in Earthquake Engineering ,1992 **Computer**

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