2-45.

If the resultant force acting on the bracket is to be directed along the positive w axis, and the magnitude of Fi is required to be minimum, determine the magnitudes of the resultant force and Fig.

SOLUTION

Rectangular Components: By referring to Figs. a and b, the a and y components of \mathbf{F}_1 , \mathbf{F}_2 , \mathbf{F}_3 , and \mathbf{F}_4 can be written as

$$(F_1)_x = F_1 \cos \phi$$

$$(F_1)_v = F_1 \sin \phi$$

$$(F_2)_x = 650\left(\frac{3}{5}\right) = 390 \text{ N}$$
 $(F_2)_y = 650\left(\frac{4}{5}\right) = 520 \text{ N}$

$$(F_2)_y = 650 \left(\frac{4}{5}\right) = 520 \text{ N}$$

$$(F_3)_x = 500 \cos 45^\circ = 353.55 \,\text{N}$$
 $(F_3)_y = 500 \sin 45^\circ = 353.55 \,\text{N}$

$$(F_B)_s = F_B \cos 45^\circ = 0.7071 F_B$$
 $(F_B)_s = F_B \sin 45^\circ = 0.7071 F_B$

$$(F_R)_r = F_R \sin 45^\circ = 0.7071 F_R$$

Resultant Force: Summing the force components algebraically along the x and y arces, we have

$$\pm \Sigma(F_R)_x = \Sigma F_x$$
;

$$0.7071F_F = F_1 \cos \phi - 390 + 353.55$$

$$+ \int \Sigma (F_{\nu})_{\nu} = \Sigma F_{\nu}$$

$$\pm_s \Sigma(F_R)_s = \Sigma F_s;$$
 0.7071 $F_R = F_1 \cos \phi - 390 + 383.55$
+ $\dagger \Sigma(F_R)_s = \Sigma F_s;$ 0.7071 $F_R = F_1 \sin \phi + 520 - 383.55$

Eliminating F_R from Eqs. (1) and (2), yields

$$F_1 = \frac{202.89}{\cos \phi - \sin \phi}$$
(3)

The first derivative of Eq. (3) is

$$\frac{dF_1}{d\phi} = \frac{\sin \phi + \cos \phi}{(\cos \phi - \sin \phi)^2}$$
(4)

The second derivative of Eq. (3) is

$$\frac{d^{2}F_{1}}{d\phi^{2}} = \frac{2(\sin \phi + \cos \phi)^{2}}{(\cos \phi - \sin \phi)^{3}} + \frac{1}{\cos \phi - \sin \phi}$$
(5)

For \mathbf{F}_1 to be minimum, $\frac{dF_1}{d\phi} = 0$. Thus, from Eq. (4)

$$\sin \phi + \cos \phi = 0$$

$$\tan \phi = -1$$

$$\phi = -45^{\circ}$$

Substituting $\phi = -45^{\circ}$ into Eq. (5), yields

$$\frac{d^2F_1}{d\phi^2} = 0.7071 > 0.$$

This shows that $\phi = -45^{\circ}$ indeed produces minimum F_1 . Thus, from Eq. (3)

$$F_1 = \frac{202.89}{\cos{(-45^\circ)} - \sin{(-45^\circ)}} = 143.47 \text{ N} = 143 \text{ N}$$



Francisco.

633 620

Substituting $\phi = -45^{\circ}$ and $F_1 = 143.47$ N into either Eq. (1) or Eq. (2), yields

$$F_R = 91.9 \, \mathrm{N}$$

Acres



Statics Second Edition Solution Manual

Gerald van Belle

Statics Second Edition Solution Manual:

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delta method steady state estimation and kernel density estimation Variance reduction including importance sampling latin hypercube sampling and conditional Monte Carlo Estimation of derivatives and sensitivity analysis Advanced topics including cross entropy rare events kernel density estimation quasi Monte Carlo particle systems and randomized optimization The presented theoretical concepts are illustrated with worked examples that use MATLAB a related Web site houses the MATLAB code allowing readers to work hands on with the material and also features the author's own lecture notes on Monte Carlo methods Detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to Monte Carlo simulation Handbook of Monte Carlo Methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use Monte Carlo in their research It is also a suitable supplement for courses on Monte Carlo methods and computational statistics at the upper undergraduate and graduate Statistical Meta-Analysis with Applications Joachim Hartung, Guido Knapp, Bimal K. Sinha, 2011-09-20 An accessible introduction to performing meta analysis across various areas of research The practice of meta analysis allows researchers to obtain findings from various studies and compile them to verify and form one overall conclusion Statistical Meta Analysis with Applications presents the necessary statistical methodologies that allow readers to tackle the four main stages of meta analysis problem formulation data collection data evaluation and data analysis and interpretation Combining the authors expertise on the topic with a wealth of up to date information this book successfully introduces the essential statistical practices for making thorough and accurate discoveries across a wide array of diverse fields such as business public health biostatistics and environmental studies Two main types of statistical analysis serve as the foundation of the methods and techniques combining tests of effect size and combining estimates of effect size Additional topics covered include Meta analysis regression procedures Multiple endpoint and multiple treatment studies The Bayesian approach to meta analysis Publication bias Vote counting procedures Methods for combining individual tests and combining individual estimates Using meta analysis to analyze binary and ordinal categorical data Numerous worked out examples in each chapter provide the reader with a step by step understanding of the presented methods All exercises can be computed using the R and SAS software packages which are both available via the book s related Web site Extensive references are also included outlining additional sources for further study Requiring only a working knowledge of statistics Statistical Meta Analysis with Applications is a valuable supplement for courses in biostatistics business public health and social research at the upper undergraduate and graduate levels It is also an excellent reference for applied statisticians working in industry academia and government Statistical Control by Monitoring and Adjustment George E. P. Box, Alberto Luceño, Maria del Carmen Paniagua-Quinones, 2011-09-09 Praise for the First Edition This book is a significant addition to the literature onstatistical practice should be of considerable interest to those interested in these topics International Journal of Forecasting Recent

research has shown that monitoring techniques alone areinadequate for modern Statistical Process Control SPC and there exists a need for these techniques to be augmented by methods that indicate when occasional process adjustment is necessary Statistical Control by Monitoring and Adjustment Second Editionpresents the relationship among these concepts and elementary ideasfrom Engineering Process Control EPC demonstrating how the powerful synergistic association between SPC and EPC can solvenumerous problems that are frequently encountered in processmonitoring and adjustment The book begins with a discussion of SPC as it was originally conceived by Dr Walter A Shewhart and Dr W Edwards Deming Subsequent chapters outline the basics of the new integration of SPC and EPC which is not available in other related books Thorough coverage of time series analysis for forecasting processdynamics and non stationary models is also provided and these sections have been carefully written so as to require only an elementary understanding of mathematics Extensive graphical explanations and computational tables accompany the numerous examples that are provided throughout each chapter and a helpfulselection of problems and solutions further facilitates understanding Statistical Control by Monitoring and Adjustment Second Editionis an excellent book for courses on applied statistics and industrial engineering at the upper undergraduate and graduatelevels It also serves as a valuable reference for statisticians and quality control practitioners working in industry Subjective and Objective Bayesian Statistics S. James Press, 2009-09-25 Ein Wiley Klassiker ber Bayes Statistik jetzt in durchgesehener und erweiterter Neuauflage Werk spiegelt die st rmische Entwicklung dieses Gebietes innerhalb der letzten Jahre wider vollst ndige Darstellung der theoretischen Grundlagen jetzt erg nzt durch unz hlige Anwendungsbeispiele die wichtigsten modernen Methoden u a hierarchische Modellierung linear dynamische Modellierung Metaanalyse MCMC Simulationen einzigartige Diskussion der Finetti Transformierten und anderer Themen ber die man ansonsten nur sp rliche Informationen findet L sungen zu den bungsaufgaben sind enthalten **Statistical Rules** of Thumb Gerald van Belle, 2011-09-20 Praise for the First Edition For a beginner this book is a treasure trove for an experienced person it can provide new ideas on how better to pursue the subject of applied statistics Journal of Quality Technology Sensibly organized for quick reference Statistical Rules of Thumb Second Edition compiles simple rules that are widely applicable robust and elegant and each captures key statistical concepts This unique guide to the use of statistics for designing conducting and analyzing research studies illustrates real world statistical applications through examples from fields such as public health and environmental studies Along with an insightful discussion of the reasoning behind every technique this easy to use handbook also conveys the various possibilities statisticians must think of when designing and conducting a study or analyzing its data Each chapter presents clearly defined rules related to inference covariation experimental design consultation and data representation and each rule is organized and discussed under five succinct headings introduction statement and illustration of the rule the derivation of the rule a concluding discussion and exploration of the concept's extensions. The author also introduces new rules of thumb for topics such as sample size for ratio analysis

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