



Problem 1.21 The equation

$$\sigma = \frac{My}{I}$$

is used in the mechanics of materials to determine normal stresses in beams.

- (a) When this equation is expressed in terms of SI base units, M is in newton-meters (N·m), y is in meters (m), and I is in meters to the fourth power (m^4). What are the SI units of σ ?
- (b) If $M = 2000$ N·m, $y = 0.1$ m, and $I = 7 \times 10^{-5} m^4$, what is the value of σ in U.S. Customary base units?

Solution:

$$(a) \quad \sigma = \frac{My}{I} = \frac{(N \cdot m)(m)}{m^4} = \frac{N}{m^2}$$

$$(b) \quad \sigma = \frac{My}{I} = \frac{(2000 \text{ N} \cdot m)(0.1 \text{ m})}{7 \times 10^{-5} m^4} \left(\frac{1 \text{ lb}}{4.448 \text{ N}} \right) \left(\frac{0.3048 \text{ m}}{1 \text{ ft}} \right)^4 = 59,700 \frac{\text{lb}}{\text{ft}^2}$$

Problem 1.22 The acceleration due to gravity on the surface of the moon is 1.62 m/s^2 . (a) What would the mass of the C-clamp in Active Example 1.4 be on the surface of the moon? (b) What would the weight of the C-clamp in newtons be on the surface of the moon?

Solution:

$$(a) \quad \text{The mass does not depend on location. The mass in kg is } 0.0272 \text{ slug} \left(\frac{14.59 \text{ kg}}{1 \text{ slug}} \right) = 0.397 \text{ kg} \quad \boxed{\text{mass} = 0.397 \text{ kg}}$$

$$(b) \quad \text{The weight on the surface of the moon is } W = mg = (0.397 \text{ kg})(1.62 \text{ m/s}^2) = 0.643 \text{ N} \quad \boxed{W = 0.643 \text{ N}}$$

Problem 1.23 The $1 \text{ ft} \times 1 \text{ ft} \times 1 \text{ ft}$ cube of iron weighs 490 lb at sea level. Determine the weight in newtons of a $1 \text{ m} \times 1 \text{ m} \times 1 \text{ m}$ cube of the same material at sea level.

Solution: The weight density is $\gamma = \frac{490 \text{ lb}}{1 \text{ ft}^3}$.
The weight of the 1 m^3 cube is:

$$W = \gamma V = \left(\frac{490 \text{ lb}}{1 \text{ ft}^3} \right) (1 \text{ m})^3 \left(\frac{1 \text{ ft}}{0.3048 \text{ m}} \right)^3 \left(\frac{1 \text{ N}}{0.2248 \text{ lb}} \right) = 77.0 \text{ kN}$$



Problem 1.24 The area of the Pacific Ocean is 64,186,000 square miles and its average depth is 12,925 ft. Assume that the weight per unit volume of ocean water is 64 lb/ft^3 . Determine the mass of the Pacific Ocean (a) in slugs; (b) in kilograms.

Solution: The volume of the ocean is

$$V = (64,186,000 \text{ mi}^2)(12,925 \text{ ft}) \left(\frac{5,280 \text{ ft}}{1 \text{ mi}} \right)^2 = 2.312 \times 10^{18} \text{ ft}^3$$

$$(a) \quad m = \rho V = \left(\frac{64 \text{ lb/ft}^3}{32.2 \text{ ft/s}^2} \right) (2.312 \times 10^{18} \text{ ft}^3) = 4.60 \times 10^{18} \text{ slugs}$$

$$(b) \quad m = (4.60 \times 10^{18} \text{ slugs}) \left(\frac{14.59 \text{ kg}}{1 \text{ slug}} \right) = 6.71 \times 10^{20} \text{ kg}$$

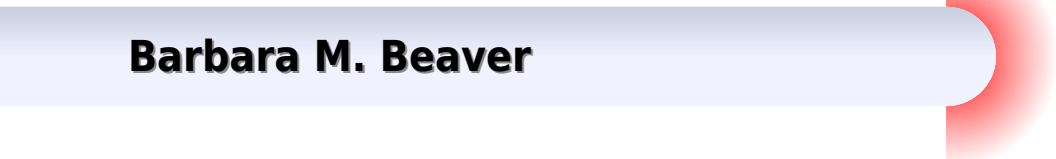
Problem 1.25 The acceleration due to gravity at sea level is $g = 9.81 \text{ m/s}^2$. The radius of the earth is 6370 km. The universal gravitational constant is $G = 6.67 \times 10^{-11} \text{ N} \cdot \text{m}^2/\text{kg}^2$. Use this information to determine the mass of the earth.

Solution: Use Eq. (1.3) $a = \frac{Gm}{R^2}$. Solve for the mass.

$$m_E = \frac{gR^2}{G} = \frac{(9.81 \text{ m/s}^2)(6370 \text{ km})^2 \left(10^3 \frac{\text{m}}{\text{km}} \right)^2}{6.67(10^{-11}) \left(\frac{\text{N} \cdot \text{m}^2}{\text{kg}^2} \right)} = 5.9679 \dots (10^{24}) \text{ kg} = 5.97(10^{24}) \text{ kg}$$

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Loss Models: From Data to Decisions, 4e Student Solutions Manual Stuart A. Klugman, Harry H. Panjer, Gordon E. Willmot, 2014-08-21 Student Solutions Manual to Accompany Loss Models From Data to Decisions Fourth Edition This volume is organised around the principle that much of actuarial science consists of the construction and analysis of mathematical models which describe the process by which funds flow into and out of an insurance system

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 on statistical practice should be of considerable interest to those interested in these topics International Journal of Forecasting Recent research has shown that monitoring techniques alone are inadequate 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 Edition presents the relationship among these concepts and elementary ideas from Engineering Process Control EPC demonstrating how the powerful synergistic association between SPC and EPC can solve numerous problems that are frequently encountered in process monitoring 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 process dynamics 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 helpful selection of problems and solutions further facilitates understanding Statistical Control by Monitoring and Adjustment Second Edition is an excellent book for courses on applied statistics and industrial engineering at the upper undergraduate and graduate levels It also serves as a valuable reference for statisticians and quality control practitioners working in industry

Handbook of Mathematics for Engineers and Scientists Andrei D. Polyainin, Alexander V. Manzhirov, 2006-11-27 Covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology The authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution

methods for various mathematical equations The book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations Fundamentals of Queueing Theory Donald Gross,John F. Shortle,James M. Thompson,Carl M. Harris,2011-09-23 Praise for the Third Edition This is one of the best books available Its excellent organizational structure allows quick reference to specific models and its clear presentation solidifies the understanding of the concepts being presented IIE Transactions on Operations Engineering Thoroughly revised and expanded to reflect the latest developments in the field Fundamentals of Queueing Theory Fourth Edition continues to present the basic statistical principles that are necessary to analyze the probabilistic nature of queues Rather than presenting a narrow focus on the subject this update illustrates the wide reaching fundamental concepts in queueing theory and its applications to diverse areas such as computer science engineering business and operations research This update takes a numerical approach to understanding and making probable estimations relating to queues with a comprehensive outline of simple and more advanced queueing models Newly featured topics of the Fourth Edition include Retrial queues Approximations for queueing networks Numerical inversion of transforms Determining the appropriate number of servers to balance quality and cost of service Each chapter provides a self contained presentation of key concepts and formulae allowing readers to work with each section independently while a summary table at the end of the book outlines the types of queues that have been discussed and their results In addition two new appendices have been added discussing transforms and generating functions as well as the fundamentals of differential and difference equations New examples are now included along with problems that incorporate QtsPlus software which is freely available via the book s related Web site With its accessible style and wealth of real world examples Fundamentals of Queueing Theory Fourth Edition is an ideal book for courses on queueing theory at the upper undergraduate and graduate levels It is also a valuable resource for researchers and practitioners who analyze congestion in the fields of

telecommunications transportation aviation and management science **Design and Analysis of Experiments, Volume 1** Klaus Hinkelmann,Oscar Kempthorne,2007-12-17 This user friendly new edition reflects a modern and accessible approach to experimental design and analysis Design and Analysis of Experiments Volume 1 Second Edition provides a general introduction to the philosophy theory and practice of designing scientific comparative experiments and also details the intricacies that are often encountered throughout the design and analysis processes With the addition of extensive numerical examples and expanded treatment of key concepts this book further addresses the needs of practitioners and successfully provides a solid understanding of the relationship between the quality of experimental design and the validity of conclusions This Second Edition continues to provide the theoretical basis of the principles of experimental design in conjunction with the statistical framework within which to apply the fundamental concepts The difference between experimental studies and observational studies is addressed along with a discussion of the various components of experimental design the error

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Models for Probability and Statistical Inference James H. Stapleton, 2008-01-07 This concise yet thorough book is enhanced with simulations and graphs to build the intuition of readers Models for Probability and Statistical Inference was written over a five year period and serves as a comprehensive treatment of the fundamentals of probability and statistical inference With detailed theoretical coverage found throughout the book readers acquire the fundamentals needed to advance to more specialized topics such as sampling linear models design of experiments statistical computing survival analysis and bootstrapping Ideal as a textbook for a two semester sequence on probability and statistical inference early chapters provide coverage on probability and include discussions of discrete models and random variables discrete distributions including binomial hypergeometric geometric and Poisson continuous normal gamma and conditional distributions and limit theory Since limit theory is usually the most difficult topic for readers to master the author thoroughly discusses modes of convergence of sequences of random variables with special attention to convergence in distribution The second half of the book addresses statistical inference beginning with a discussion on point estimation and followed by coverage of consistency and confidence intervals Further areas of exploration include distributions defined in terms of the multivariate normal chi square t and F central and non central the one and two sample Wilcoxon test together with methods of estimation based on both linear models with a linear space projection approach and logistic regression Each section contains a set of problems ranging in difficulty from simple to more complex and selected answers as well as proofs to almost all statements are provided An abundant amount of figures in addition to helpful simulations and graphs produced by the statistical package S Plus r are included to help build the intuition of readers

Linear Models Brenton R. Clarke, 2008-09-19 An insightful approach to the

analysis of variance in the study of linear models Linear Models explores the theory of linear models and the dynamic relationships that these models have with Analysis of Variance ANOVA experimental design and random and mixed model effects This one of a kind book emphasizes an approach that clearly explains the distribution theory of linear models and experimental design starting from basic mathematical concepts in linear algebra The author begins with a presentation of the classic fixed effects linear model and goes on to illustrate eight common linear models along with the value of their use in statistics From this foundation subsequent chapters introduce concepts pertaining to the linear model starting with vector space theory and the theory of least squares estimation An outline of the Helmert matrix is also presented along with a thorough explanation of how the ANOVA is created in both typical two way and higher layout designs ultimately revealing the distribution theory Other important topics covered include Vector space theory The theory of least squares estimation Gauss Markov theorem Kronecker products Diagnostic and robust methods for linear models Likelihood approaches to estimation A discussion of Bayesian theory is also included for purposes of comparison and contrast and numerous illustrative exercises assist the reader with uncovering the nature of the models using both classic and new data sets Requiring only a working knowledge of basic probability and statistical inference Linear Models is a valuable book for courses on linear models at the upper undergraduate and graduate levels It is also an excellent reference for practitioners who use linear models to conduct research in the fields of econometrics psychology sociology biology and agriculture

Generalized, Linear, and Mixed Models Charles E. McCulloch, Shayle R. Searle, John M. Neuhaus, 2011-09-20 An accessible and self contained introduction to statistical models now in a modernized new edition Generalized Linear and Mixed Models Second Edition provides an up to date treatment of the essential techniques for developing and applying a wide variety of statistical models The book presents thorough and unified coverage of the theory behind generalized linear and mixed models and highlights their similarities and differences in various construction application and computational aspects A clear introduction to the basic ideas of fixed effects models random effects models and mixed models is maintained throughout and each chapter illustrates how these models are applicable in a wide array of contexts In addition a discussion of general methods for the analysis of such models is presented with an emphasis on the method of maximum likelihood for the estimation of parameters The authors also provide comprehensive coverage of the latest statistical models for correlated non normally distributed data Thoroughly updated to reflect the latest developments in the field the Second Edition features A new chapter that covers omitted covariates incorrect random effects distribution correlation of covariates and random effects and robust variance estimation A new chapter that treats shared random effects models latent class models and properties of models A revised chapter on longitudinal data which now includes a discussion of generalized linear models modern advances in longitudinal data analysis and the use between and within covariate decompositions Expanded coverage of marginal versus conditional models Numerous new and updated examples With its accessible style and wealth of illustrative exercises Generalized Linear and

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Periodically Correlated Random Sequences Harry L. Hurd, Abolghassem Miamee, 2007-10-05. Uniquely combining theory, application and computing, this book explores the spectral approach to time series analysis. The use of periodically correlated or cyclostationary processes has become increasingly popular in a range of research areas such as meteorology, climate communications, economics and machine diagnostics. Periodically Correlated Random Sequences presents the main ideas of these processes through the use of basic definitions along with motivating insightful and illustrative examples. Extensive coverage of key concepts is provided including second order theory, Hilbert spaces, Fourier theory and the spectral theory of harmonizable sequences. The authors also provide a paradigm for nonparametric time series analysis including tests for the presence of PC structures. Features of the book include: An emphasis on the link between the spectral theory of unitary operators and the correlation structure of PC sequences. A discussion of the issues relating to nonparametric time series analysis for PC sequences including estimation of the mean correlation and spectrum. A balanced blend of historical background with modern application specific references to periodically correlated processes. An accompanying Web site that features additional exercises as well as data sets and programs written in MATLAB for performing time series analysis on data that may have a PC structure. Periodically Correlated Random Sequences is an ideal text on time series analysis for graduate level statistics and engineering students who have previous experience in second order stochastic processes, Hilbert space, vector spaces, random processes and probability. This book also serves as a valuable reference for research statisticians and practitioners in areas of probability and statistics such as time series analysis, stochastic processes and prediction theory.

A Matrix Handbook for Statisticians George A. F. Seber, 2008-01-07. A comprehensive must-have handbook of matrix methods with a unique emphasis on statistical applications. This timely book, A Matrix Handbook for Statisticians, provides a comprehensive encyclopedic treatment of matrices as they relate to both statistical concepts and methodologies. Written by an experienced authority on matrices and statistical theory, this handbook is organized by topic rather than mathematical developments and includes numerous references to both the theory behind the methods and the applications of the methods. A uniform approach is applied to each chapter which contains four parts: a definition followed by a list of results, a short list of references to related topics in the book, one or more references to proofs, and references to applications. The use of extensive cross referencing to topics within the book and external referencing to proofs allows for definitions to be located easily as well as interrelationships among subject areas to be recognized. A Matrix Handbook for Statisticians addresses the need for matrix theory topics to be presented together in one book and features a collection of topics not found elsewhere under one cover. These topics include: Complex matrices, A wide range of special matrices and their properties, Special products and operators such as the Kronecker product, Partitioned and patterned

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Permutation Tests for Complex Data Fortunato Pesarin, Luigi Salmaso, 2010-02-25 Complex multivariate testing problems are frequently

encountered in many scientific disciplines such as engineering medicine and the social sciences As a result modern statistics needs permutation testing for complex data with low sample size and many variables especially in observational studies The Authors give a general overview on permutation tests with a focus on recent theoretical advances within univariate and multivariate complex permutation testing problems this book brings the reader completely up to date with today's current thinking Key Features Examines the most up to date methodologies of univariate and multivariate permutation testing Includes extensive software codes in MATLAB R and SAS featuring worked examples and uses real case studies from both experimental and observational studies Includes a standalone free software NPC Test Release 10 with a graphical interface which allows practitioners from every scientific field to easily implement almost all complex testing procedures included in the book Presents and discusses solutions to the most important and frequently encountered real problems in multivariate analyses A supplementary website containing all of the data sets examined in the book along with ready to use software codes Together with a wide set of application cases the Authors present a thorough theory of permutation testing both with formal description and proofs and analysing real case studies Practitioners and researchers working in different scientific fields such as engineering biostatistics psychology or medicine will benefit from this book

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