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Engineering Mechanics By  
Kelkar Vasant S Sewell  
Robert T 1987 Hardcover*

**Make Better Business and Investment  
Decisions Business Managers,**

**Entrepreneurs & Investors will learn to  
use Financial Statements for:\***

**Profitability comparison, to help improve  
performance of businesses and**

**investments\* Liquidity testing, to assess  
how comfortably a business can maintain**

**operations\* Leverage measurement,  
which can be used to check risk\***

**Efficiency benchmarking, to improve  
internal operations\* Market-based**

***analysis, to decide between alternative investments"Ratio Analysis Fundamentals" will give the financial statement novice power to add value to business and investments. The book covers 17 Financial Ratios that can be used for the financial analysis of a business.Each financial ratio section provides:\* The formula\* A worked example\* Guidance on where to locate the data in the financial statements\* Guidance on how to interpret the result***

***of the ratio analysis calculation Accounting information is too often seen as a necessary compliance issue, or simply 'record-keeping', but with tools like ratio analysis you can look behind the raw numbers and see the 'story' of the business; and this is when accounting information turns from 'record-keeping' into an indispensable value creator. What's New in the 2nd Edition:\** Revised and improved content in many sections as a result of the**

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**author's further research.\* Updated  
formatting to assist reading experience.\*  
Removal of spelling and grammatical  
errors to reduce confusion and improve  
professionalism.If You Want to get more  
use of financial statements for your  
business and investments then this is  
the Book to Buy**

**This textbook provides comprehensive  
and in-depth explanations of all topics  
related to spatial analysis and  
spatiotemporal simulation, including how**

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***spatial data are acquired, represented digitally, and spatially aggregated. Also features the nature of space and how it is measured. Descriptive, explanatory, and inferential analyses are covered for point, line, and area data. It captures the latest developments in spatiotemporal simulation with cellular automata and agent-based modelling, and through practical examples discusses how spatial analysis and modelling can be implemented in different computing***

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**platforms. A much-needed textbook for a  
course at upper undergraduate and  
postgraduate levels.**

***Fundamentals of Energy Dispersive X-ray  
Analysis provides an introduction to the  
fundamental principles of dispersive X-  
ray analysis. It presents descriptions,  
equations, and graphs to enable the  
users of these techniques to develop an  
intuitive and conceptual image of the  
physical processes involved in the  
generation and detection of X-rays. The***

***book begins with a discussion of X-ray detection and measurement, which is accomplished by one of two types of X-ray spectrometer: energy dispersive or wavelength dispersive. The emphasis is on energy dispersive spectrometers, given their rather widespread use compared to the wavelength dispersive type. This is followed by separate chapters on techniques such as X-ray absorption; spectrum processing; and elimination of spectrum background***



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***produced by electron excitation. Subsequent chapters cover X-ray fluorescence; the use of regression models; hardware for X-ray fluorescence analysis; scattering, background, and trace element analysis; and methods for producing inner shell excitation of atoms in a sample of interest. The final chapter deals with applications of X-ray analysis. Fundamental Analysis For Dummies John Wiley & Sons  
Fundamentals of Numerical Computation***

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**(Computer-Oriented Numerical Analysis)**  
**Fundamentals, Analysis and Design**

**A Business Process Redesign Approach**

**Fundamentals of Convex Analysis**

**Fundamentals of Statistical Experimental  
Design and Analysis**

**Fundamentals, Analysis and Filter Design**

Fundamentals of Brain Network Analysis is a comprehensive and accessible introduction to methods for unraveling the extraordinary complexity of neuronal connectivity. From the perspective of graph theory and network science, this book introduces, motivates and

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explains techniques for modeling brain networks as graphs of nodes connected by edges, and covers a diverse array of measures for quantifying their topological and spatial organization. It builds intuition for key concepts and methods by illustrating how they can be practically applied in diverse areas of neuroscience, ranging from the analysis of synaptic networks in the nematode worm to the characterization of large-scale human brain networks constructed with magnetic resonance imaging. This text is ideally suited to neuroscientists wanting to develop expertise in the rapidly developing field of neural

connectomics, and to physical and computational scientists wanting to understand how these quantitative methods can be used to understand brain organization. Extensively illustrated throughout by graphical representations of key mathematical concepts and their practical applications to analyses of nervous systems Comprehensively covers graph theoretical analyses of structural and functional brain networks, from microscopic to macroscopic scales, using examples based on a wide variety of experimental methods in neuroscience Designed to inform and empower scientists at all

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levels of experience, and from any specialist  
background, wanting to use modern methods of  
network science to understand the  
organization of the brain

**Systems Analysis & Design Fundamentals: A  
Business Process Redesign Approach** uniquely  
integrates traditional and modern systems  
analysis with design methods and techniques.  
By using a business process redesign  
approach, author Ned Kock enables readers to  
understand, in a very applied and practical  
way, how information technologies can be used  
to significantly improve organizational  
quality and productivity.

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The author's goal is a rigorous presentation of the fundamentals of analysis, starting from elementary level and moving to the advanced coursework. The curriculum of all mathematics (pure or applied) and physics programs include a compulsory course in mathematical analysis. This book will serve as can serve a main textbook of such (one semester) courses. The book can also serve as additional reading for such courses as real analysis, functional analysis, harmonic analysis etc. For non-math major students requiring math beyond calculus, this is a more friendly approach than many math-centric

options. Friendly and well-rounded presentation of pre-analysis topics such as sets, proof techniques and systems of numbers. Deeper discussion of the basic concept of convergence for the system of real numbers, pointing out its specific features, and for metric spaces Presentation of Riemann integration and its place in the whole integration theory for single variable, including the Kurzweil-Henstock integration Elements of multiplicative calculus aiming to demonstrate the non-absoluteness of Newtonian calculus.

The book is written as primer hand book for

addressing the fundamentals of smart grid. It provides the working definition the functions, the design criteria and the tools and techniques and technology needed for building smart grid. The book is needed to provide a working guideline in the design, analysis and development of Smart Grid. It incorporates all the essential factors of Smart Grid appropriate for enabling the performance and capability of the power system. There are no comparable books which provide information on the “how to” of the design and analysis. The book provides a fundamental discussion on the motivation for



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the smart grid development, the working definition and the tools for analysis and development of the Smart Grid. Standards and requirements needed for designing new devices, systems and products are discussed; the automation and computational techniques need to ensure that the Smart Grid guarantees adaptability, foresight alongside capability of handling new systems and components are discussed. The interoperability of different renewable energy sources are included to ensure that there will be minimum changes in the existing legacy system. Overall the book evaluates different options of computational

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decision support system to design various  
Smart Grid. Strategies for  
aspects of Smart Grid schemes on  
demonstration of Smart Grid schemes on  
selected problems are presented.

Structural Analysis Fundamentals

Fundamentals of Brain Network Analysis

Fundamentals of Abstract Analysis

Fundamentals of Real Analysis

Fundamentals of Nanoscale Film Analysis

Fundamentals, Performance Analysis and Design

How to make profits in the stock market  
— steadily and consistently Fundamental

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analysis is an essential, core skill in an investor's tool-kit for evaluating a company on the basis of its track record: sales, earnings, dividends, products, management, etc., as well as the economic and industry outlook. It is a value-based approach to stock market investing — solid and prudent — that typically offers handsome profits to the long-term investor. Raghu Palat's book will help you master the essentials of fundamental analysis. It

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clearly explains, with illustrations,  
all the analytical tools of economic,  
industry and company analysis,

including ratios and cash flow. It  
shows you how to judge a company's  
management and its products, and  
discover what actually lies behind the  
figures and notes in a company's annual  
report. And, how to calculate the  
intrinsic value of a share. Fundamental  
analysis will help you base your  
investment decisions on relevant

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information, not tips, hunches or assumptions. Doing that will help you make solid, consistent long-term

profits. Legendary modern day investors like Warren Buffet and Peter Lynch used basically this approach to amass fortunes on the stock market. So can you.

"This book is very well organized and clearly written and contains an adequate supply of exercises. If one is comfortable with the choice of topics

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in the book, it would be a good candidate for a text in a graduate real analysis course." -- MATHEMATICAL

### REVIEWS

Comprehensive coverage of the four major trading styles Evolution of a Trader explores the four trading styles that people use when learning to trade or invest in the stock market. Often, beginners enter the stock market by: Buying and holding onto a stock (value investing). That works well until the

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trend ends or a bear market begins. Then they try Position trading. This is the same as buy-and-hold, except the technique sells positions before a significant trend change occurs. Swing trading follows when traders increase their frequency of trading, trying to catch the short-term up and down swings. Finally, people try Day trading by completing their trades in a single day. This series provides comprehensive coverage of the four trading styles by

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offering numerous tips, sharing discoveries, and discussing specific trading setups to help you become a successful trader or investor as you journey through each style. Trading Basics takes an in-depth look at money management, stops, support and resistance, and offers dozens of tips every trader should know. Fundamental Analysis and Position Trading discusses when to sell a buy-and-hold position, uncovers which fundamentals work best,



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and uses them to find stocks that  
become 10-baggers—stocks that climb by  
10 times their original value. Swing and

Day Trading reveals methods to time the  
market swings, including specific  
trading setups, but it covers the  
basics as well, such as setting up a  
home trading office and how much money  
you can make day trading.

How to determine the true strength and  
stability of any business What's the  
key to multibillionaire Warren

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Buffett's five-decade run as the most successful investor in history? Fundamental analysis. Now, Fundamental Analysis For Dummies puts this tried and true method for gauging any company's true underlying value into sensible and handy step-by-step instructions.. In this easy-to-understand, practical, and savvy guide you'll discover why this powerful tool is particularly important to investors in times of economic downturn and how

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it helps you assess a business's overall financial performance by using historical and present data to forecast its future monetary value. You'll also learn how to use fundamental analysis to spot bargains in the market, minimize your risk, and improve your overall investment skills. Shows how to predict the future value of a business based on its current and historical financial data Helps you gauge a company's performance against its

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competitors Covers evaluation of internal management Reveals how to determine if in a company's credit standing is any jeopardy Applies fundamental analysis to other investment vehicles, including currency, bonds, and commodities Matt Krantz is a writer and reporter for USA TODAY and USATODAY.COM where he covers investments and financial markets Read Fundamental Analysis For Dummies and find the bargains that could make you

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the next Warren Buffett!  
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How 17 Financial Ratios Can Allow You

to Analyse Any Business on the Planet  
Fundamentals of Dynamics and Analysis  
of Motion

(Computer-Orientated Numerical  
Analysis)

The Fundamentals of Mathematical  
Analysis

Fundamentals of Matrix Analysis with  
Applications

**Aiming at a better understanding of power system harmonics, this text presents a discussion of this issue, providing a quantitative analysis when possible. Pertinent equations are developed. 80 practical case studies based on real-life work experience come with the text. These are analysed providing the results and commenting on the output. Furthermore, 80 end-of-chapter problems are provided. A detailed solution manual is available. The book can be used as a textbook for undergraduate and graduate students, in short-courses offered by**

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**consultants and institutes, as well as a tutorial,  
reference, or self-study course for practising  
engineers in the industry and electric utility.**

**This book is the first volume of two volumes on  
cyclodextrins published in the series  
Environmental Chemistry for a Sustainable  
World. After a brief description of the  
cyclodextrin fundamentals, the first chapter by  
Grégorio Crini et al. provides an overview of  
cyclodextrin research during the last 5 years.  
The second chapter by Michal ?ezanka  
discusses the synthesis of novel cyclodextrin**

**systems by selective modifications. Then Eric Monflier et al. describes the synthesis of nanostructured porous materials based on cyclodextrins, and applications in heterogeneous catalysis and photocatalysis. The use of thermal analyses for assessing cyclodextrin inclusion complexes is reviewed in chapter 4 by Daniel H?d?rug? et al. Experimental methods for measuring binding constants of cyclodextrin inclusion compounds are presented by David Landy. The second volume reviews cyclodextrin applications in medicine, food,**



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environment and liquid crystals.

**Fundamentals of Mathematical Analysis** explores real and functional analysis with a substantial component on topology. The three leading chapters furnish background information on the real and complex number fields, a concise introduction to set theory, and a rigorous treatment of vector spaces. **Fundamentals of Mathematical Analysis** is an extensive study of metric spaces, including the core topics of completeness, compactness and function spaces, with a good number of applications. The

**later chapters consist of an introduction to general topology, a classical treatment of Banach and Hilbert spaces, the elements of operator theory, and a deep account of measure and integration theories. Several courses can be based on the book. This book is suitable for a two-semester course on analysis, and material can be chosen to design one-semester courses on topology or real analysis. It is designed as an accessible classical introduction to the subject and aims to achieve excellent breadth and depth and contains an abundance of examples and**

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**exercises. The topics are carefully sequenced, the proofs are detailed, and the writing style is clear and concise. The only prerequisites assumed are a thorough understanding of undergraduate real analysis and linear algebra, and a degree of mathematical maturity.**

**This book is an abridged version of the two volumes "Convex Analysis and Minimization Algorithms I and II" (Grundlehren der mathematischen Wissenschaften Vol. 305 and 306). It presents an introduction to the basic concepts in convex analysis and a study of**

**convex minimization problems (with an emphasis on numerical algorithms). The "backbone" of bot volumes was extracted, some material deleted which was deemed too advanced for an introduction, or too closely attached to numerical algorithms. Some exercises were included and finally the index has been considerably enriched, making it an excellent choice for the purpose of learning and teaching.**

**Intelligence Analysis Fundamentals  
Fundamentals of Mathematical Analysis**

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Synthesis**

**Fundamental Ideas of Analysis**

**The Fundamentals**

*An accessible and clear introduction to linear algebra  
with a focus on matrices and engineering applications*

*Providing comprehensive coverage of matrix theory from  
a geometric and physical perspective, Fundamentals of  
Matrix Analysis with Applications describes the  
functionality of matrices and their ability to quantify*

*and analyze many practical applications. Written by a highly qualified author team, the book presents tools for matrix analysis and is illustrated with extensive examples*

*and software implementations. Beginning with a detailed exposition and review of the Gauss elimination method, the authors maintain readers' interest with refreshing discussions regarding the issues of operation counts, computer speed and precision, complex arithmetic formulations, parameterization of solutions, and the logical traps that dictate strict adherence to Gauss's instructions. The book heralds matrix formulation both as notational shorthand and as a quantifier of physical*

*operations such as rotations, projections, reflections, and the Gauss reductions. Inverses and eigenvectors are visualized first in an operator context before being addressed computationally. Least squares theory is expounded in all its manifestations including optimization, orthogonality, computational accuracy, and even function theory. Fundamentals of Matrix Analysis with Applications also features: Novel approaches employed to explicate the QR, singular value, Schur, and Jordan decompositions and their applications Coverage of the role of the matrix exponential in the solution of linear systems of differential equations with constant*

*coefficients Chapter-by-chapter summaries, review problems, technical writing exercises, select solutions, and group projects to aid comprehension of the presented*

*concepts Fundamentals of Matrix Analysis with*

*Applications is an excellent textbook for undergraduate courses in linear algebra and matrix theory for students majoring in mathematics, engineering, and science. The book is also an accessible go-to reference for readers seeking clarification of the fine points of kinematics, circuit theory, control theory, computational statistics, and numerical algorithms.*

*There are a limited number of intelligence analysis books*



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*available on the market. Intelligence Analysis*

*Fundamentals is an introductory, accessible text for  
college level undergraduate and graduate level courses.*

*While the principles outlined in the book largely follow  
military intelligence terminology and practice, concepts  
are presented to correlate with intelligence gathering and  
analysis performed in law enforcement, homeland  
security, and corporate and business security roles. Most  
of the existing texts on intelligence gathering and  
analysis focus on specific types of intelligence such as  
'target centric' intelligence, and many of these, detail  
information from a position of prior knowledge. In other*

*words, they are most valuable to the consumer who has a working-level knowledge of the subject. The book is general enough in nature that a lay student—interested in pursuing a career in intelligence, Homeland Security, or other related areas of law enforcement—will benefit from it. No prior knowledge of intelligence analysis, functions, or operations is assumed. Chapters illustrate methods and techniques that, over the years, have consistently demonstrate results, superior to those achieved with other means. Chapters describe such analytical methods that are most widely used in the intelligence community and serve as recognized standards*

*and benchmarks in the practice of intelligence analysis. All techniques have been selected for inclusion for their specific application to homeland security, criminal investigations, and intelligence operations. Uses numerous hands-on activities—that can easily be modified by instructors to be more or less challenging depending on the course level—to reinforce concepts As current and active members of the intelligence community, the authors draw on their decades of experience in intelligence to offer real-world examples to illustrate concepts All methodologies reflect the latest trends in the intelligence communities assessment,*

*analysis, and reporting processes with all presented being open source, non-classified information As such, the non-sensitive information presented is appropriate—and*

*methods applicable—for use for education and training overseas and internationally Military-style collection and analysis methods are the primary ones presented, but all are directly correlated intelligence to current concepts, functions and practices within Homeland Security and the law communities Covers the counterterrorism environment where joint operations and investigative efforts combine military, private sector, and law enforcement action and information sharing The book*

*will be a welcome addition to the body of literature  
available and a widely used reference for professionals  
and students alike.*

*This is the first book which systematically describes an  
integral approach on dimensional analysis. The amount  
of textbooks on dimensional analysis is huge, however  
most of the books start with the definition of the relevant  
variables. When the variables are given to the reader  
without prior knowledge on each problem it has serious  
consequences: the usefulness of dimensional analysis is  
not appreciated, is not possible to understand the real  
challenges of this subject and the result, which is a*

*general relationship with dimensionless groups is useless. This book closes the hole in previous books because in addition to describe step by step how to reach the general relationship with dimensionless groups, which creates solid basis of different metallurgical problems to understand the role of the relevant variables. It provides a full description on how to obtain the experimental data and applies the experimental data to transform the general relationship in a particular solution. Once the reader learns how to design the experimental work and uses that information to define the particular solution, it is possible to asses if the selection of variables was*

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*adequate or not. The book is useful for both undergraduate and graduate students.*

*Determine the strength of any business with fundamental analysis Have you ever wondered the key to multibillionaire Warren Buffet's five-decade run as the most successful investor in history? The answer is simple: fundamental analysis. In this easy-to-understand, practical, and savvy guide, you'll discover how it helps you assess a business' overall financial performance by using historical and present data to forecast its future monetary value—and why this powerful tool is particularly important to investors in times of economic*

*downturn. It's more important than ever for investors to know the true financial stability of a business, and this new edition of Fundamental Analysis For Dummies shows you how. Whether you're a seasoned investor or just want to learn how to make more intelligent and prudent investment decisions, this plain-English guide gives you practical tips, tricks, and trade secrets for using fundamental analysis to manage your portfolio and enhance your understanding of shrewdly selecting stocks! Predict the future value of a business based on its current and historical financial data Gauge a company's performance against its competitors Determine if a*



*company's credit standing is in jeopardy Apply  
fundamental analysis to other investment vehicles, like  
currency, bonds, and commodities With the help of  
Fundamental Analysis For Dummies, you just may find  
the bargains that could make you the next Warren  
Buffet!*

*Propensity Score Analysis*

*Fundamental Analysis and Position Trading*

*Fundamentals of Dimensional Analysis*

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This is a textbook for a course in Honors Analysis (for freshman/sophomore undergraduates) or Real Analysis (for junior/senior undergraduates) or Analysis-I (beginning graduates). It is intended for students who completed a course in "AP Calculus", possibly followed by a routine course in multivariable calculus and a computational course in linear algebra. There are three features that distinguish this book from many other books of a similar nature and which are important for the use of this book as a text. The first, and most important, feature is the collection of exercises. These are spread throughout the chapters and

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should be regarded as an essential component of the student's learning. Some of these exercises comprise a routine follow-up to the material, while others challenge the student's understanding more deeply. The second feature is the set of independent projects presented at the end of each chapter. These projects supplement the content studied in their respective chapters. They can be used to expand the student's knowledge and understanding or as an opportunity to conduct a seminar in Inquiry Based Learning in which the students present the material to their class. The third really important

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feature is a series of challenge problems that increase in impossibility as the chapters progress. Presenting a thorough overview of bit-interleaved coded modulation (BICM), this book introduces the tools for the analysis and design of BICM transceivers. It explains in details the functioning principles of BICM and proposes a refined probabilistic modeling of the reliability metrics—the so-called L-values—which are at the core of the BICM receivers. Alternatives for transceiver design based on these models are then studied. Providing new insights into the analysis of BICM, this book is unique in its

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approach, providing a general framework for analysis and design, focusing on communication theoretic aspects of BICM transceivers. It adopts a tutorial approach, explains the problems in simple terms with the aid of multiple examples and case studies, and provides solutions using accessible mathematical tools. The book will be an excellent resource for researchers in academia and industry: graduate students, academics, development engineers, and R & D managers. Key Features: Presents an introduction to BICM, placing it in the context of other coded modulation schemes Offers explanations of the

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functioning principles and design alternatives  
Provides a unique approach, focusing on  
communication theory aspects Shows examples  
and case studies to illustrate analysis and design  
of BICM Adopts a tutorial approach, explaining the  
problems in simple terms and presenting  
solutions using accessible mathematical tools  
From materials science to integrated circuit  
development, much of modern technology is  
moving from the microscale toward the  
nanoscale. This book focuses on the fundamental  
physics underlying innovative techniques for  
analyzing surfaces and near-surfaces. New

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analytical techniques have emerged to meet these technological requirements, all based on a few processes that govern the interactions of particles and radiation with matter. This book addresses the fundamentals and application of these processes, from thin films to field effect transistors.

This book is designed to help researchers better design and analyze observational data from quasi-experimental studies and improve the validity of research on causal claims. It provides clear guidance on the use of different propensity score analysis (PSA) methods, from the fundamentals to

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complex, cutting-edge techniques. Experts in the field introduce underlying concepts and current issues and review relevant software programs for PSA. The book addresses the steps in propensity score estimation, including the use of generalized boosted models, how to identify which matching methods work best with specific types of data, and the evaluation of balance results on key background covariates after matching. Also covered are applications of PSA with complex data, working with missing data, controlling for unobserved confounding, and the extension of PSA to prognostic score analysis for causal



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inference. User-friendly features include statistical program codes and application examples. Data and software code for the examples are available at the companion website ([www.guilford.com/pan-materials](http://www.guilford.com/pan-materials)).

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a comprehensive introduction to the seismic principles essential for the design of

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building structures. The book offers a  
concise but thorough review of seismic  
theory, code application, design principles,  
and structural analysis. The book is an ideal  
review for candidates studying for the  
California Civil P.E Seismic Principles Exam  
and the seismic portion of the National Civil  
P.E 8hrs exam. Updated for 2015 IBC and ASCE  
7-10.

This concise textbook discusses vibration  
problems in engineering, dealing with systems  
of one and more than one degrees of freedom.  
A substantial section of Answers to Problems  
is included. 1956 edition.

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This classic is an ideal introduction for students into the methodology and thinking of higher mathematics. It covers material not usually taught in the more technically-oriented introductory classes and will give students a well-rounded foundation for future studies.

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parts that the analysis produces. Most chapters include exercises and the appendices give selected percentage points of the Gaussian,  $t$ ,  $F$  chi-squared and studentized range distributions.

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*"Nauka" Publishers in 1983. Since then the monograph has served as the standard textbook on functional analysis at the University of Novosibirsk. This volume is translated from the second Russian edition printed by the Sobolev Institute of Mathematics of the Siberian Division of the Russian Academy of Sciences in 1995. It incorporates new sections on Radon measures, the Schwartz spaces of distributions, and a supplementary list of theoretical exercises and problems. This edition was typeset using AMS- $\text{\LaTeX}$ , the American Mathematical Society's  $\text{\LaTeX}$  system. To clear my conscience completely, I also confess that  $:=$  stands for the definor, the assignment operator, signifies the end of*

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*topology and measure theory normally encountered. The reader is assumed to only have knowledge of basic real analysis, complex analysis, and algebra. The latter part of the text provides an outstanding treatment of Banach space theory and operator theory, covering topics not usually found together in other books on functional analysis. Written in a clear, concise manner, and equipped with a rich array of interesting and important exercises and examples, this book can be read for an independent study, used as a text for a two-semester course, or as a self-contained reference for the researcher.*

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