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## **A First Course in Quality Engineering**

### **Integrating Statistical and Management Methods of Quality, Second Edition** *CRC Press*

Completely revised and updated, A First Course in Quality Engineering:

Integrating Statistical and Management Methods of Quality, Second Edition contains virtually all the information an engineer needs to function as a quality engineer. The authors not only break things down very simply but also give a full understanding of why each topic covered is essential to learning proper quality management. They present the information in a manner that builds a strong foundation in quality management without overwhelming readers. See what's new in the new edition: Reflects changes in the latest revision of the ISO 9000 Standards and the Baldrige Award criteria Includes new mini-projects and examples throughout Incorporates Lean methods for reducing cycle time, increasing throughput, and reducing waste Contains increased

coverage of strategic planning This text covers management and statistical methods of quality engineering in an integrative manner, unlike other books on the subject that focus primarily on one of the two areas of quality. The authors illustrate the use of quality methods with examples drawn from their consulting work, using a reader-friendly style that makes the material approachable and encourages self-study. They cover the must-know fundamentals of probability and statistics and make extensive use of computer software to illustrate the use of the computer in solving quality problems. Reorganized to make the book suitable for self study, the second edition discusses how to design Total Quality System that works. With detailed coverage of the

management and statistical tools needed to make the system perform well, the book provides a useful reference for professionals who need to implement quality systems in any environment and candidates preparing for the exams to qualify as a certified quality engineer (CQE).

## **A First Course in Quality Engineering**

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integrative manner, unlike other books on the subject that focus primarily on one of the two areas of quality. The authors illustrate the use of quality methods with examples drawn from their consulting work, using a reader-friendly style that makes the material approachable and encourages self-study. They cover the must-know fundamentals of probability and statistics and make extensive use of computer software to illustrate the use of the computer in solving quality problems. Reorganized to make the book suitable for self study, the second edition discusses how to design Total Quality System that works. With detailed coverage of the management and statistical tools needed to make the system perform well, the book provides a useful

reference for professionals who need to implement quality systems in any environment and candidates preparing for the exams to qualify as a certified quality engineer (CQE).

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### **A First Course in Programming and Statistics** *No Starch Press*

The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your data and performing statistical tests and

modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn: -The fundamentals of programming in R, including how to write data frames, create functions, and use variables, statements, and loops -Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R -How to access R's thousands of functions, libraries, and data sets -How to draw valid and useful conclusions from your data -How to

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**A First Course in Graph Theory**  
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Written by two prominent figures in the field, this comprehensive text provides a remarkably student-friendly approach. Its sound yet accessible treatment emphasizes the history of graph theory and offers unique examples and lucid proofs. 2004 edition.

**Quality Engineering Statistics** ASQ  
*Quality Press*

This book is a compendium of many of the statistical tools and tests used by quality and engineering professionals. It is a practical handbook that lists significant statistical methods, outlines assumptions for testing, and provides formulas and completed examples. The book is ideal for engineers who know what type of test to perform but need an easy-to-use reference to help complete the task. Readers should have an understanding of basic statistics. A bibliography contains references to texts that can provide the necessary theory and mathematical foundations.

**A First Course in Functional Analysis**  
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Designed for undergraduate mathematics majors, this self-contained exposition of Gelfand's proof of Wiener's theorem explores set theoretic preliminaries, normed linear spaces and algebras, functions on Banach spaces, homomorphisms on normed linear spaces, and more. 1966 edition.

**DNA Science**

**A First Course** CSHL Press

This is the second edition of a highly successful textbook (over 50,000 copies sold) in which a highly illustrated, narrative text is combined with easy-to-use thoroughly reliable laboratory protocols. It contains a fully up-to-date collection of 12 rigorously tested and reliable lab experiments in

molecular biology, developed at the internationally renowned Dolan DNA Learning Center of Cold Spring Harbor Laboratory, which culminate in the construction and cloning of a recombinant DNA molecule. Proven through more than 10 years of teaching at research and nonresearch colleges and universities, junior colleges, community colleges, and advanced biology programs in high school, this book has been successfully integrated into introductory biology, general biology, genetics, microbiology, cell biology, molecular genetics, and molecular biology courses. The first eight chapters have been completely revised, extensively rewritten, and updated. The new coverage extends to the completion of the draft sequence of the human

genome and the enormous impact these and other sequence data are having on medicine, research, and our view of human evolution. All sections on the concepts and techniques of molecular biology have been updated to reflect the current state of laboratory research. The laboratory experiments cover basic techniques of gene isolation and analysis, honed by over 10 years of classroom use to be thoroughly reliable, even in the hands of teachers and students with no prior experience. Extensive prelab notes at the beginning of each experiment explain how to schedule and prepare, while flow charts and icons make the protocols easy to follow. As in the first edition of this book, the laboratory course is completely supported by quality-assured products

from the Carolina Biological Supply Company, from bulk reagents, to useable reagent systems, to single-use kits, thus satisfying a broad range of teaching applications.

**A First Course in Network Science**  
*Cambridge University Press*

A practical introduction to network science for students across business, cognitive science, neuroscience, sociology, biology, engineering and other disciplines.

**Electronics**

**A First Course** *Routledge*

This volume presents the basics of electricity and component types, and introduces students to practical work

involving basic electronics. This text is intended for a wide range of introductory courses in electronics, technology, physics and engineering. The coverage includes GCSE Electronics, GCSE Design & Technology, Engineering GCSE and City & Guilds competence-based courses such as Level 2 NVQs. The author's approach is student-centred with self-test features to check understanding, including numerous activities suitable for practicals, homework and other assignments.

**A First Course in Statistical Programming with R** *Cambridge University Press*

This is the only introduction you'll need to start programming in R, the open-source language that is free to

download, and lets you adapt the source code for your own requirements. Co-written by one of the R Core Development Team, and by an established R author, this book comes with real R code that complies with the standards of the language. Unlike other introductory books on the ground-breaking R system, this book emphasizes programming, including the principles that apply to most computing languages, and techniques used to develop more complex projects. Learning the language is made easier by the frequent exercises and end-of-chapter reviews that help you progress confidently through the book. Solutions, datasets and any errata will be available from the book's web site. The many examples, all from real applications,

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### **A First Course in Probability**

This market-leading introduction to probability features exceptionally clear explanations of the mathematics of probability theory and explores its many diverse applications through numerous interesting and motivational examples. The outstanding problem sets are a hallmark feature of this book. Provides clear, complete explanations to fully explain mathematical concepts. Features subsections on the probabilistic method and the maximum-minimums identity. Includes many new examples relating to DNA matching, utility, finance, and applications of the probabilistic method. Features an intuitive treatment of

probability—intuitive explanations follow many examples. The Probability Models Disk included with each copy of the book, contains six probability models that are referenced in the book and allow readers to quickly and easily perform calculations and simulations.

**Taguchi's Quality Engineering Handbook** *Wiley-Interscience*

In the last fifty years, one man stands out as the driving force behind the quality revolution--Genichi Taguchi. Now, for the first time in one volume, Taguchi's Quality Engineering Handbook presents all the methods and beliefs that have made Taguchi one of the most respected authorities on quality engineering and management in the world. No other single volume presents

the full breadth of founding beliefs behind the successful engineering practices used by today's leading companies. (Midwest).

**A First Course in Bayesian Statistical Methods** *Springer Science & Business Media*

A self-contained introduction to probability, exchangeability and Bayes' rule provides a theoretical understanding of the applied material. Numerous examples with R-code that can be run "as-is" allow the reader to perform the data analyses themselves. The development of Monte Carlo and Markov chain Monte Carlo methods in the context of data analysis examples provides motivation for these computational methods.

**Quality Engineering Handbook** CRC Press

Written by one of the foremost authorities on the subject, the Second Edition is completely revised to reflect the latest changes to the ASQ Body of Knowledge for the Certified Quality Engineer (CQE). This handbook covers every essential topic required by the quality engineer for day-to-day practices in planning, testing, finance, and management and thoroughly examines and defines the principles and benefits of Six Sigma management and organization. The Quality Engineering Handbook provides new and expanded sections on management systems, leadership and facilitation principles and techniques, training, customer relations, documentation systems, domestic and

international standards, and more.

**A First Course in Calculus** Springer Science & Business Media

This fifth edition of Lang's book covers all the topics traditionally taught in the first-year calculus sequence. Divided into five parts, each section of A FIRST COURSE IN CALCULUS contains examples and applications relating to the topic covered. In addition, the rear of the book contains detailed solutions to a large number of the exercises, allowing them to be used as worked-out examples -- one of the main improvements over previous editions.

**A First Course in Analysis** Cambridge University Press

This rigorous textbook is intended for a

year-long analysis or advanced calculus course for advanced undergraduate or beginning graduate students. Starting with detailed, slow-paced proofs that allow students to acquire facility in reading and writing proofs, it clearly and concisely explains the basics of differentiation and integration of functions of one and several variables, and covers the theorems of Green, Gauss, and Stokes. Minimal prerequisites are assumed, and relevant linear algebra topics are reviewed right before they are needed, making the material accessible to students from diverse backgrounds. Abstract topics are preceded by concrete examples to facilitate understanding, for example, before introducing differential forms, the text examines low-dimensional examples. The meaning and

importance of results are thoroughly discussed, and numerous exercises of varying difficulty give students ample opportunity to test and improve their knowledge of this difficult yet vital subject.

### **A First Course in the Mathematical Foundations of Thermodynamics**

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Research in the past thirty years on the foundations of thermodynamics has led not only to a better understanding of the early developments of the subject but also to formulations of the First and Second Laws that permit both a rigorous analysis of the consequences of these laws and a substantial broadening of the class of systems to which the laws can fruitfully be applied. Moreover, modern

formulations of the laws of thermodynamics have now achieved logically parallel forms at a level accessible to under graduate students in science and engineering who have completed the standard calculus sequence and who wish to understand the role which mathematics can play in scientific inquiry. My goal in writing this book is to make some of the modern developments in thermodynamics available to readers with the background and orientation just mentioned and to present this material in the form of a text suitable for a one-semester junior-level course. Most of this presentation is taken from notes that I assembled while teaching such a course on two occasions. I found that, aside from a brief review of line integrals and exact

differentials in two dimensions and a short discussion of infima and suprema of sets of real numbers, juniors (and even some mature sophomores) had sufficient mathematical background to handle the subject matter. Many of the students whom I taught had very limited experience with formal and rigorous mathematical exposition.

### **The First Course**

#### **Book One of The Omegas Series, a SuperHarem Adventure**

Charles Murphy's superpower is useless. He can turn into a churro. In a world where 1% of the population has powers, he's quite below average; many would say he's completely useless. And they have. At length. For years. Despite his

deep-seated desire to be a hero, his ability isn't glamorous and can't be used to fight crime, so he and a small cadre of similarly useless supers are relegated to Omega Team and told explicitly that all they will ever need to do is sit there and look pretty. And while waiting to be called up to the big leagues, they might as well get laid, right? Dangerous secrets will send the Omegas on an adventure none of them could have anticipated. Can they step up to the plate and become the heroes they were meant to be? Warning: this book contains explicit content and ridiculous situations that are suitable only for adults. But not, like, adult-y adults. More like teenagers who have adult bodies. (It's lowbrow, it's what I'm saying.) Reader discretion strongly advised. 18+ only.

**Statistical Quality Assurance Methods for Engineers** *John Wiley & Sons Incorporated*

The Tools You Need To Be A Successful Engineer As you read through this new text, you'll discover the importance of Statistical Quality Control (SQC) tools in engineering process monitoring and improvement. You'll learn what SQC methods can and cannot do, and why these are valuable additions to your engineering tool kit. And instead of overwhelming you with unnecessary details, the authors make the implementation of statistical tools "user-friendly." The rich set of examples and problems integrated throughout this book will help you gain a better understanding of where and how to apply SQC tools. Real projects, cases and

data sets show you clearly how SQC tools are used in practice. Topics are covered in the right amount of detail to give you insight into their relative importance in modern quality assurance and the ability to immediately use them. This approach provides the mix of tools you'll need to succeed in your engineering career. Key Features of the Text

- \* Provides a coherent presentation of the role of statistics in quality assurance.
- \* Places special attention on making sure that while the technical details are absolutely correct, they do not overwhelm the reader.
- \* Presents the material in realistic contexts, with examples and problems that are based on real-world projects, cases and data sets.
- \* The implementation of statistical tools is user-friendly.
- \* The statistical

treatment emphasizes graphics and estimation (and de-emphasizes hypothesis testing).

### **A First Course in the Finite Element Method, SI Version** *Cengage Learning*

A FIRST COURSE IN THE FINITE ELEMENT METHOD provides a simple, basic approach to the course material that can be understood by both undergraduate and graduate students without the usual prerequisites (i.e. structural analysis). The book is written primarily as a basic learning tool for the undergraduate student in civil and mechanical engineering whose main interest is in stress analysis and heat transfer. The text is geared toward those who want to apply the finite element method as a tool to solve practical physical problems.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

## **A First Course in Quality Engineering**

### **Integrating Statistical and Management Methods of Quality, Third Edition** *CRC Press*

This book is the leader among the new generation of text books on quality that follow the systems approach to creating quality in products and services; the earlier generations focused solely on parts of the system such as statistical methods, process control, and management philosophy. It follows the premise that the body of knowledge and

tools documented by quality professionals and researchers, when employed in designing, creating and delivering the product will lead to product quality, customer satisfaction and reduced waste. The tools employed at the different stages of the product creation cycle are covered in this book using real world examples along with their theoretical bases, strengths and weaknesses. This textbook can be used for training - from shop floor personnel to college majors in business and engineering to practicing professionals. Graduate students training as researchers in the quality field will also find useful material. The book has been used as the text for a Professional Series Massive Open Online Course offered by the Technical University of Munich on

edX.org, through which tens of thousands of participants from all over the world have received training in quality methods. According to Professor Dr. Holly Ott, who chose the book for the course, the text is one of the main factors contributing to success of this MOOC. The Third Edition has been fully revised to be friendly for self-study, reflects changes in the standards referenced such as ISO 9000, and includes new examples of application of statistical tools in health care industry. Features: Reviews the history of quality movement in the U.S. and abroad Discusses Quality Cost analysis and quality's impact on a company's bottom line Explains finding customer needs and designing the product using House of Quality Covers selection of product

parameters using DOE and reliability principles Includes control charts to control processes to make the product right-the-first-time Describes use of capability indices  $C_p$  and  $C_{pk}$  to meet customer needs Presents problem solving methodology and tools for continuous improvement Offers ISO 9000, Baldrige and Six Sigma as templates for creating a quality system

### **A First Course in Applied Mathematics** *John Wiley & Sons*

Explore real-world applications of selected mathematical theory, concepts, and methods Exploring related methods that can be utilized in various fields of practice from science and engineering to business, A First Course in Applied Mathematics details how applied

mathematics involves predictions, interpretations, analysis, and mathematical modeling to solve real-world problems. Written at a level that is accessible to readers from a wide range of scientific and engineering fields, the book masterfully blends standard topics with modern areas of application and provides the needed foundation for transitioning to more advanced subjects. The author utilizes MATLAB® to showcase the presented theory and illustrate interesting real-world applications to Google's web page ranking algorithm, image compression, cryptography, chaos, and waste management systems. Additional topics covered include: Linear algebra Ranking web pages Matrix factorizations Least squares Image compression Ordinary

differential equations Dynamical systems Mathematical models Throughout the book, theoretical and applications-oriented problems and exercises allow readers to test their comprehension of the presented material. An accompanying website features related MATLAB® code and additional resources. A First Course in Applied Mathematics is an ideal book for mathematics, computer science, and engineering courses at the upper-undergraduate level. The book also serves as a valuable reference for practitioners working with mathematical modeling, computational methods, and the applications of mathematics in their everyday work.

### **A First Course in Mathematical**

**Physics** *John Wiley & Sons*

The book assumes next to no prior knowledge of the topic. The first part introduces the core mathematics, always in conjunction with the physical context. In the second part of the book, a series of examples showcases some of the more conceptually advanced areas of physics, the presentation of which draws on the developments in the first part. A large number of problems helps students to hone their skills in using the presented mathematical methods. Solutions to the problems are available to instructors on an associated password-protected website for lecturers.

**Radar Meteorology****A First Course** *John Wiley & Sons*

A comprehensive introduction to the current technology and application of radar in meteorology and atmospheric sciences. Written by leading experts in the field, *Radar Meteorology, A first Course* offers an introduction to meteorological radar systems and applications, with emphasis on observation and interpretation of physical processes in clouds and weather systems. This comprehensive introduction to the subject offers an overview of the quantities essential to radar meteorology including the radar reflectivity factor, and Doppler, dual-polarization, and multi-wavelength radar variables. The authors highlight wind retrieval from single and multiple Doppler radars, precipitation estimation

and hydrometeorological applications, with chapters dedicated to interpretation of radar data from warm season mid-latitude severe weather, winter storms, tropical cyclones and more. In addition, Radar Meteorology highlights research applications of this burgeoning technology, exploring dynamic applications such as space-borne and ground-based vertically pointing radar systems, and cloud, airborne and mobile radars. As meteorological radars are increasingly used professionally for weather observation, forecasting and warning, this much-needed text:

- Presents an introduction to the technical aspects and current application of radar as used in the meteorology and atmospheric sciences
- Contains full-colour illustrations that enhance the

understanding of the material presented

- Examines the wide-range of meteorological applications of radar
- Includes problems at the end of each chapter as a helpful review of the contents
- Provides full instructor support with all illustrations and answers to problems available via the book's instructor website.

Radar Meteorology offers a much-needed introductory text to the study of radar as applied to meteorology. The text was designed for a one semester course based on the authors' own course in Radar Meteorology at the University of Illinois at Urbana-Champaign.

## **Linear Algebra**

**A First Course with Applications** CRC

*Press*

Linear Algebra: A First Course with Applications explores the fundamental ideas of linear algebra, including vector spaces, subspaces, basis, span, linear independence, linear transformation, eigenvalues, and eigenvectors, as well as a variety of applications, from inventories to graphics to Google's PageRank. Unlike other texts on the subject, this classroom-tested book gives students enough time to absorb the material by focusing on vector spaces early on and using computational sections as numerical interludes. It offers introductions to MapleTM, MATLAB®, and TI-83 Plus for calculating matrix inverses, determinants, eigenvalues, and eigenvectors. Moving from the specific to the general, the author raises questions,

provides motivation, and discusses strategy before presenting answers. Discussions of motivation and strategy include content and context to help students learn.

### **Abstract Algebra**

#### **A First Course, Second Edition** *Waveland Press*

The Second Edition of this classic text maintains the clear exposition, logical organization, and accessible breadth of coverage that have been its hallmarks. It plunges directly into algebraic structures and incorporates an unusually large number of examples to clarify abstract concepts as they arise. Proofs of theorems do more than just prove the stated results; Saracino examines them

so readers gain a better impression of where the proofs come from and why they proceed as they do. Most of the exercises range from easy to moderately difficult and ask for understanding of ideas rather than flashes of insight. The new edition introduces five new sections on field extensions and Galois theory, increasing its versatility by making it appropriate for a two-semester as well as a one-semester course.

## **Mid-Latitude Atmospheric Dynamics**

### **A First Course** *John Wiley & Sons*

This exciting text provides a mathematically rigorous yet accessible textbook that is primarily aimed at atmospheric science majors. Its accessibility is due to the text's emphasis

on conceptual understanding. The first five chapters constitute a companion text to introductory courses covering the dynamics of the mid-latitude atmosphere. The final four chapters constitute a more advanced course, and provide insights into the diagnostic power of the quasi-geostrophic approximation of the equations outlined in the previous chapters, the meso-scale dynamics of the frontal zone, the alternative PV perspective for cyclone interpretation, and the dynamics of the life-cycle of mid-latitude cyclones. Written in a clear and accessible style. Features real weather examples and global case studies. Each chapter sets out clear learning objectives and tests students' knowledge with concluding questions and answers. A Solutions

Manual is also available for this textbook on the Instructor Companion Site [www.wileyurope.com/college/martin](http://www.wileyurope.com/college/martin). "...a student-friendly yet rigorous textbook that accomplishes what no other textbook has done before... I highly recommend this textbook. For instructors, this is a great book if they don't have their own class notes – one can teach straight from the book. And for students, this is a great book if they don't take good class notes – one can learn straight from the book. This is a rare attribute of advanced textbooks." Bulletin of the American Meteorological Society (BAMS), 2008

### **Business Statistics - A First Course**

### **A First Course in Systems Biology**

#### *Garland Science*

A First Course in Systems Biology is an introduction for advanced undergraduate and graduate students to the growing field of systems biology. Its main focus is the development of computational models and their applications to diverse biological systems. The book begins with the fundamentals of modeling, then reviews features of the molecular inventories that bring biological systems to life and discusses case studies that represent some of the frontiers in systems biology and synthetic biology. In this way, it provides the reader with a comprehensive background and access to methods for executing standard systems biology tasks, understanding the modern literature, and launching into specialized courses or projects that

address biological questions using theoretical and computational means. New topics in this edition include: default modules for model design, limit cycles and chaos, parameter estimation in Excel, model representations of gene regulation through transcription factors, derivation of the Michaelis-Menten rate law from the original conceptual model, different types of inhibition, hysteresis, a model of differentiation, system adaptation to persistent signals, nonlinear nullclines, PBPK models, and elementary modes. The format is a combination of instructional text and references to primary literature, complemented by sets of small-scale exercises that enable hands-on experience, and large-scale, often open-ended questions for further reflection.

### **A First Course in Abstract Algebra**

*Pearson College Division*

This spectacularly clear introduction to abstract algebra is designed to make the study of all required topics and the reading and writing of proofs both accessible and enjoyable for readers encountering the subject for the first time. Number Theory. Groups. Commutative Rings. Modules. Algebras. Principal Idea Domains. Group Theory II. Polynomials In Several Variables. For anyone interested in learning abstract algebra.

### **A First Course in Differential Equations with Modeling Applications**

*Cengage Learning*  
A FIRST COURSE IN DIFFERENTIAL  
EQUATIONS WITH MODELING

APPLICATIONS, 10th Edition strikes a balance between the analytical, qualitative, and quantitative approaches to the study of differential equations. This proven and accessible text speaks to beginning engineering and math students through a wealth of pedagogical aids, including an abundance of examples, explanations, Remarks boxes, definitions, and group projects. Written in a straightforward, readable, and helpful style, this book provides a thorough treatment of boundary-value problems and partial differential equations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**A First Course in Design and Analysis of Experiments** *W. H. Freeman*

Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three practical themes to students: • when to use various designs • how to analyze the results • how to recognize various design options Also, unlike other older texts, the book is fully oriented toward the use of statistical software in analyzing experiments.

**A First Course in Electrical and**

## **Computer Engineering**

**With MATLAB Programs and Experiments** *Addison-Wesley*

## **A First Course in Topology**

**An Introduction to Mathematical Thinking** *Courier Corporation*

Students must prove all of the theorems in this undergraduate-level text, which features extensive outlines to assist in study and comprehension. Thorough and well-written, the treatment provides sufficient material for a one-year undergraduate course. The logical presentation anticipates students' questions, and complete definitions and expositions of topics relate new concepts to previously discussed subjects. Most of

the material focuses on point-set topology with the exception of the last chapter. Topics include sets and functions, infinite sets and transfinite numbers, topological spaces and basic concepts, product spaces, connectivity, and compactness. Additional subjects include separation axioms, complete spaces, and homotopy and the fundamental group. Numerous hints and figures illuminate the text. Dover (2014) republication of the edition originally published by The Williams & Wilkins Company, Baltimore, 1975. See every Dover book in print at [www.doverpublications.com](http://www.doverpublications.com)

**First Course in Mathematical Logic** *Courier Corporation*

Rigorous introduction is simple enough

in presentation and context for wide range of students. Symbolizing sentences; logical inference; truth and validity; truth tables; terms, predicates, universal quantifiers; universal specification and laws of identity; more.

**A First Course in Artificial Intelligence** *McGraw-Hill Education*

**A First Course in Quality Engineering**

**A First Course in Scientific Computing**

**Symbolic, Graphic, and Numeric Modeling Using Maple, Java, Mathematica, and Fortran90**  
*Princeton University Press*

This book offers a new approach to introductory scientific computing. It aims to make students comfortable using computers to do science, to provide them with the computational tools and knowledge they need throughout their college careers and into their professional careers, and to show how all the pieces can work together. Rubin Landau introduces the requisite mathematics and computer science in the course of realistic problems, from energy use to the building of skyscrapers to projectile motion with drag. He is attentive to how each discipline uses its own language to describe the same concepts and how computations are concrete instances of the abstract. Landau covers the basics of computation, numerical analysis, and

programming from a computational science perspective. The first part of the printed book uses the problem-solving environment Maple as its context, with the same material covered on the accompanying CD as both Maple and Mathematica programs; the second part uses the compiled language Java, with equivalent materials in Fortran90 on the CD; and the final part presents an introduction to LaTeX replete with sample files. Providing the essentials of computing, with practical examples, *A First Course in Scientific Computing* adheres to the principle that science and engineering students learn computation best while sitting in front of a computer, book in hand, in trial-and-error mode. Not only is it an invaluable learning text and an essential reference for students

of mathematics, engineering, physics, and other sciences, but it is also a consummate model for future textbooks in computational science and engineering courses. A broad spectrum of computing tools and examples that can be used throughout an academic career. Practical computing aimed at solving realistic problems. Both symbolic and numerical computations. A multidisciplinary approach: science + math + computer science. Maple and Java in the book itself; Mathematica, Fortran90, Maple and Java on the accompanying CD in an interactive workbook format.

### **First Course** *Touchpoint Press*

When four life-altering catastrophes hit in just one day—including the loss of her

parents in a tragic plane crash-twenty-four-year-old Janie Whitman retreats to her family's summer house in Cape Elizabeth, Maine. Here she tries to provide stability for her older sister Alyssa and two young nieces by cooking them amazing food. Through a mix-up with the alumni office at her parents' alma mater, Janie meets a young high school guidance counselor named Rocky at a volunteer event, and their fast-tracked romance helps Janie to see possibilities beyond the life she had

known just a few weeks prior. But with her ex-boyfriend (and former boss) making overtures beyond her wildest dreams, as well as Alyssa's estranged husband willing to do whatever it takes to win her back, the Whitman sisters are faced with big decisions. Despite the obstacles in their way, when Janie and Alyssa are tasked with establishing a lasting memorial for their parents, they just might find the second acts they are seeking.