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"Sports journalist John Feinstein returns to his first love--college basketball--with a fascinating and compelling journey through a

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landscape of unsung, unpublicized and often unknown heroes of Division-1 college hoops"--

From the author of the highly-acclaimed "A First Course in Real Analysis" comes a volume designed specifically for a short

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one-semester course in real analysis. Many students of mathematics and the physical and computer sciences need a text that presents the most important material in a brief and elementary fashion. The author meets this need with such

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elementary topics as the real number system, the theory at the basis of elementary calculus, the topology of metric spaces and infinite series. There are proofs of the basic theorems on limits at a pace that is deliberate and detailed, backed by illustrative

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examples throughout and no less than 45 figures.

Additive manufacturing (AM) methods have great potential for promoting transformative research in many fields across the vast spectrum of engineering and materials science. AM is one

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of the leading forms of advanced manufacturing which enables direct computer-aided design (CAD) to part production without part-specific tooling. In October 2015 the National Academies of Sciences, Engineering, and Medicine convened a workshop

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of experts from diverse communities to examine predictive theoretical and computational approaches for various AM technologies. While experimental workshops in AM have been held in the past, this workshop uniquely focused on

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theoretical and computational approaches and involved areas such as simulation-based engineering and science, integrated computational materials engineering, mechanics, materials science, manufacturing processes, and

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other specialized areas. This publication summarizes the presentations and discussions from the workshop.

Avalanches, mudflows and landslides are common and natural phenomena that occur in mountainous regions. With an

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emphasis on snow avalanches, this book provides a survey and discussion about the motion of avalanche-like flows from initiation to run out. An important aspect of this book is the formulation and investigation of a simple but appropriate

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continuum mechanical model for
the realistic prediction of
geophysical flows of granular
material.

Avalanche Dynamics

Real Mathematical Analysis

The Elements of Integration and
Lebesgue Measure

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Introduction to Real Analysis,
Fourth Edition

A Compendium of Principles,
Instrumentation, and
Applications

Combining breadth of coverage
with detail, this logical and
cohesive introduction to insect

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ecology couples concepts with a broad range of examples and practical applications. It explores cutting-edge topics in the field, drawing on and highlighting the links between theory and the latest empirical studies. The sections are

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structured around a series of key topics, including behavioral ecology; species interactions; population ecology; food webs, communities and ecosystems; and broad patterns in nature. Chapters progress logically from the small

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scale to the large; from individual species through to species interactions, populations and communities. Application sections at the end of each chapter outline the practicality of ecological concepts and show how ecological

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information and concepts can be useful in agriculture, horticulture and forestry. Each chapter ends with a summary, providing a brief recap, followed by a set of questions and discussion topics designed to encourage

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independent and creative thinking.
NEW! Unlocking English Learners'
Potential Strategies for Making
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Fenner, Sydney Snyder Foreword
by Lydia Breiseth A once-in-a-
generation text for assisting a new

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generation of students Content teachers and ESOL teachers, take special note: if you're looking for a single resource to help your English learners meet the same challenging content standards as their English-proficient peers, your

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search is complete. Just dip into this toolbox of strategies, examples, templates, and activities from ELL authorities Diane Staehr Fenner and Sydney Snyder. The best part? No prior training assumed! You'll find inside every last how-to

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including: * How to scaffold instruction across content and grade levels * How to build background knowledge * How to analyze text through close reading and text dependent questions * How to promote oral language and

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vocabulary development * How to evaluate and use formative assessment \$29.95, 320 pages, D17100-978-1-5063-5277-0 Building on the success of the previous three editions, Foundations for Microstrip Circuit

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Design offers extensive new, updated and revised material based upon the latest research. Strongly design-oriented, this fourth edition provides the reader with a fundamental understanding of this fast expanding field making it a

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definitive source for professional engineers and researchers and an indispensable reference for senior students in electronic engineering. Topics new to this edition: microwave substrates, multilayer transmission line structures,

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modern EM tools and techniques, microstrip and planar transmission line design, transmission line theory, substrates for planar transmission lines, Vias, wirebonds, 3D integrated interposer structures, computer-aided design,

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microstrip and power-dependent effects, circuit models, microwave network analysis, microstrip passive elements, and slotline design fundamentals.

The doctrine of "the covenant of works" arose to prominence in the

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late sixteenth century and quickly became a regular feature in Reformed thought. Theologians believed that when God first created man he made a covenant with him: all Adam had to do was obey God's command to not eat

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from the tree of knowledge and obey God's command to be fruitful, multiply, and subdue the earth. The reward for Adam's obedience was profound: eternal life for him and his offspring. The consequences of his disobedience were dire: God

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would visit death upon Adam and his descendants. In the covenant of works, Adam was not merely an individual but served as a public person, the federal head of the human race. The Covenant of Works explores the origins of the

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doctrine of God's covenant with Adam and traces it back to the inter-testamental period, through the patristic and middle ages, and to the Reformation. The doctrine has an ancient pedigree and was not solely advocated by Reformed

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theologians. The book traces the doctrine's development in the seventeenth century and its reception in the eighteenth, nineteenth, and twentieth centuries. Fesko explores the reasons why the doctrine came to

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be rejected by some, even in the Reformed tradition, arguing that interpretive methods influenced by Enlightenment thought caused theologians to question the doctrine's scriptural legitimacy.

Theory of Functions of a Real

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Variable (Teoria Functsiy

Veshchestvennoy Peremennoy,

Chapters I to IX)

Dynamics of Rapid Flows of Dense

Granular Avalanches

The Covenant of Works

Geospatial Technology for Earth

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Observation

A Practical Guide

Ott and Longnecker's AN

INTRODUCTION TO

STATISTICAL METHODS AND

DATA ANALYSIS, Sixth

Edition, provides a broad

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overview of statistical methods for advanced undergraduate and graduate students from a variety of disciplines who have little or no prior course work in statistics. The authors teach students to solve problems

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encountered in research projects, to make decisions based on data in general settings both within and beyond the university setting, and to become critical readers of statistical analyses in research

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papers and in news reports. The first eleven chapters present material typically covered in an introductory statistics course, as well as case studies and examples that are often encountered in undergraduate

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capstone courses. The remaining chapters cover regression modeling and design of experiments. Important Notice: Media content referenced within the product description or the product text

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may not be available in the ebook version.

Using an extremely clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents

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challenging math concepts as clearly as possible. The real number system. Differential calculus of functions of one variable. Riemann integral functions of one variable. Integral calculus of real-valued

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functions. Metric Spaces. For those who want to gain an understanding of mathematical analysis and challenging mathematical concepts.

NATIONAL BESTSELLER •

“ Steven Pressfield brings the

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battle of Thermopylae to brilliant life. ” —Pat Conroy At Thermopylae, a rocky mountain pass in northern Greece, the feared and admired Spartan soldiers stood three hundred strong. Theirs was a suicide

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mission, to hold the pass against the invading millions of the mighty Persian army. Day after bloody day they withstood the terrible onslaught, buying time for the Greeks to rally their forces. Born into a cult of

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spiritual courage, physical endurance, and unmatched battle skill, the Spartans would be remembered for the greatest military stand in history—one that would not end until the rocks were awash with blood,

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leaving only one gravely injured Spartan squire to tell the tale. . .

.

Mathematics is the music of science, and real analysis is the Bach of mathematics. There are many other foolish things I

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could say about the subject of this book, but the foregoing will give the reader an idea of where my heart lies. The present book was written to support a first course in real analysis, normally taken after a year of elementary

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calculus. Real analysis is, roughly speaking, the modern setting for Calculus, "real" alluding to the field of real numbers that underlies it all. At center stage are functions, defined and taking values in

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sets of real numbers or in sets (the plane, 3-space, etc.) readily derived from the real numbers; a first course in real analysis traditionally places the emphasis on real-valued functions defined on sets of real

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numbers. The agenda for the course: (1) start with the axioms for the field of real numbers, (2) build, in one semester and with appropriate rigor, the foundations of calculus (including the

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"Fundamental Theorem"), and, along the way, (3) develop those skills and attitudes that enable us to continue learning mathematics on our own. Three decades of experience with the exercise have not diminished

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my astonishment that it can be
done.

Insect Ecology

I Survived the Battle of D-Day,
1944 (I Survived #18)

Insect Diapause

Elements of Real Anyalsis

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An introduction to information graphics and visualization

Was plane geometry your favourite math course in high school? Did you like proving theorems? Are you sick of memorising integrals? If so, real analysis could be your cup of tea. In

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contrast to calculus and elementary algebra, it involves neither formula manipulation nor applications to other fields of science. None. It is Pure Mathematics, and it is sure to appeal to the budding pure mathematician. In this new

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introduction to undergraduate real analysis the author takes a different approach from past studies of the subject, by stressing the importance of pictures in mathematics and hard problems. The exposition is informal and relaxed, with many

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helpful asides, examples and occasional comments from mathematicians like Dieudonne, Littlewood and Osserman. The author has taught the subject many times over the last 35 years at Berkeley and this book is based on

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the honours version of this course.
The book contains an excellent
selection of more than 500
exercises.

Earth Observation interacts with
space, remote sensing,
communication, and information

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technologies, and plays an increasingly significant role in Earth related scientific studies, resource management, homeland security, topographic mapping, and development of a healthy, sustainable environment and

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community. Geospatial Technology for Earth Observation provides an in-depth and broad collection of recent progress in Earth observation.

Contributed by leading experts in this field, the book covers satellite, airborne and ground remote sensing

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systems and system integration,
sensor orientation, remote sensing
physics, image classification and
analysis, information extraction,
geospatial service, and various
application topics, including
cadastral mapping, land use change

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evaluation, water environment monitoring, flood mapping, and decision making support. Geospatial Technology for Earth Observation serves as a valuable training source for researchers, developers, and practitioners in geospatial science

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and technology industry. It is also suitable as a reference book for upper level college students and graduate students in geospatial technology, geosciences, resource management, and informatics.

Introduction to Real Analysis,

Page 60/175

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Fourth Edition by Robert G.

BartleDonald R. Sherbert The first three editions were very well received and this edition maintains the same spirit and user-friendly approach as earlier editions. Every section has been examined. Some

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sections have been revised, new examples and exercises have been added, and a new section on the Darboux approach to the integral has been added to Chapter 7. There is more material than can be covered in a semester and instructors will

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need to make selections and perhaps use certain topics as honors or extra credit projects. To provide some help for students in analyzing proofs of theorems, there is an appendix on "Logic and Proofs" that discusses topics such as implications,

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negations, contrapositives, and different types of proofs. However, it is a more useful experience to learn how to construct proofs by first watching and then doing than by reading about techniques of proof. Results and proofs are given at

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a medium level of generality. For instance, continuous functions on closed, bounded intervals are studied in detail, but the proofs can be readily adapted to a more general situation. This approach is used to advantage in Chapter 11 where

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topological concepts are discussed. There are a large number of examples to illustrate the concepts, and extensive lists of exercises to challenge students and to aid them in understanding the significance of the theorems. Chapter 1 has a brief

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summary of the notions and notations for sets and functions that will be used. A discussion of Mathematical Induction is given, since inductive proofs arise frequently. There is also a section on finite, countable and

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infinite sets. This chapter can be used to provide some practice in proofs, or covered quickly, or used as background material and returning later as necessary. Chapter 2 presents the properties of the real number system. The first two sections

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deal with Algebraic and Order properties, and the crucial Completeness Property is given in Section 2.3 as the Supremum Property. Its ramifications are discussed throughout the remainder of the chapter. In Chapter 3, a

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thorough treatment of sequences is given, along with the associated limit concepts. The material is of the greatest importance. Students find it rather natural although it takes time for them to become accustomed to the use of epsilon. A brief introduction

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to Infinite Series is given in Section 3.7, with more advanced material presented in Chapter 9. Chapter 4 on limits of functions and Chapter 5 on continuous functions constitute the heart of the book. The discussion of limits and continuity

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relies heavily on the use of sequences, and the closely parallel approach of these chapters reinforces the understanding of these essential topics. The fundamental properties of continuous functions on intervals are discussed in Sections

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5.3 and 5.4. The notion of a gauge is introduced in Section 5.5 and used to give alternate proofs of these theorems. Monotone functions are discussed in Section 5.6. The basic theory of the derivative is given in the first part of Chapter 6. This

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material is standard, except a result of Caratheodory is used to give simpler proofs of the Chain Rule and the Inversion Theorem. The remainder of the chapter consists of applications of the Mean Value Theorem and may be explored as

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time permits. In Chapter 7, the Riemann integral is defined in Section 7.1 as a limit of Riemann sums. This has the advantage that it is consistent with the students' first exposure to the integral in calculus, and since it

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is not dependent on order properties, it permits immediate generalization to complex- and vector-valued functions that students may encounter in later courses. It is also consistent with the generalized Riemann integral that is discussed

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in Chapter 10. Sections 7.2 and 7.3 develop properties of the integral and establish the Fundamental Theorem and many more. This practical guide provides the best introduction to large deformation material point method.

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(MPM) simulations for geotechnical engineering. It provides the basic theory, discusses the different numerical features used in large deformation simulations, and presents a number of applications -- providing references, examples and

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guidance when using MPM for practical applications. MPM covers problems in static and dynamic situations within a common framework. It also opens new frontiers in geotechnical modelling and numerical analysis. It represents

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a powerful tool for exploring large deformation behaviours of soils, structures and fluids, and their interactions, such as internal and external erosion, and post-liquefaction analysis; for instance the post-failure liquid-like

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behaviours of landslides, penetration problems such as CPT and pile installation, and scouring problems related to underwater pipelines. In the recent years, MPM has developed enough for its practical use in industry, apart from the

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increasing interest in the academic
world.

Surface and Thin Film Analysis

45 Classroom Management
Strategies

The Grammar of Lahu

Foundations for Microstrip Circuit

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Design

Unlocking English Learners'
Potential

*This book covers the application of
computational fluid dynamics from
low-speed to high-speed flows,
especially for use in aerospace*

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applications.

Our highly seasonal world restricts insect activity to brief portions of the year. This feature necessitates a sophisticated interpretation of seasonal changes and enactment of mechanisms for bringing

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development to a halt and then reinitiating it when the inimical season is past. The dormant state of diapause serves to bridge the unfavourable seasons, and its timing provides a powerful mechanism for synchronizing

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insect development. This book explores how seasonal signals are monitored and used by insects to enact specific molecular pathways that generate the diapause phenotype. The broad perspective offered here scales from the

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ecological to the molecular and thus provides a comprehensive view of this exciting and vibrant research field, offering insights on topics ranging from pest management, evolution, speciation, climate change and

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disease transmission, to human health, as well as analogies with other forms of invertebrate dormancy and mammalian hibernation.

This book is an attempt to make presentation of Elements of Real

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Analysis more lucid. The book contains examples and exercises meant to help a proper understanding of the text. For B.A., B.Sc. and Honours (Mathematics and Physics), M.A. and M.Sc. (Mathematics) students

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*of various Universities/
Institutions.As per UGC Model
Curriculum and for I.A.S. and
Various other competitive exams.
This open access book provides a
comprehensive overview of
volcanic crisis research, the goal*

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being to establish ways of successfully applying volcanology in practice and to identify areas that need to be addressed for future progress. It shows how volcano crises are managed in practice, and helps to establish

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best practices. Consequently the book brings together authors from all over the globe who work with volcanoes, ranging from observatory volcanologists, disaster practitioners and government officials to NGO-based

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and government practitioners to address three key aspects of volcanic crises. First, the book explores the unique nature of volcanic hazards, which makes them a particularly challenging threat to forecast and manage,

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due in part to their varying spatial and temporal characteristics. Second, it presents lessons learned on how to best manage volcanic events based on a number of crises that have shaped our understanding of volcanic

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hazards and crises management. Third, it discusses the diverse and wide-ranging aspects of communication involved in crises, which merge old practices and new technologies to accommodate an increasingly challenging and

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globalised world. The information and insights presented here are essential to tapping established knowledge, moving towards more robust volcanic crises management, and understanding how the volcanic world is

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perceived from a range of standpoints and contexts around the globe.

Introduction to Analysis

Introduction to Real Analysis

An Introduction to Statistical Methods and Data Analysis

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Detection of Abrupt Changes Elementary Analysis

Real Analysis builds the theory behind calculus directly from the basic concepts of real numbers, limits, and open and closed sets in \mathbb{R}^n . It gives the three characterizations of continuity: via

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epsilon-delta, sequences, and open sets. It gives the three characterizations of compactness: as "closed and bounded," via sequences, and via open covers. Topics include Fourier series, the Gamma function, metric spaces, and Ascoli's Theorem. The text not only

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provides efficient proofs, but also shows the student how to come up with them. The excellent exercises come with select solutions in the back. Here is a real analysis text that is short enough for the student to read and understand and complete enough to be the primary text for a serious

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undergraduate course. Frank Morgan is the author of five books and over one hundred articles on mathematics. He is an inaugural recipient of the Mathematical Association of America's national Haimo award for excellence in teaching. With this book, Morgan has finally brought his famous direct style

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to an undergraduate real analysis text. Surveying and comparing all techniques relevant for practical applications in surface and thin film analysis, this second edition of a bestseller is a vital guide to this hot topic in nano- and surface technology. This new book has been revised and

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updated and is divided into four parts - electron, ion, and photon detection, as well as scanning probe microscopy. New chapters have been added to cover such techniques as SNOM, FIM, atom probe (AP), and sum frequency generation (SFG). Appendices with a summary and comparison of

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techniques and a list of equipment suppliers make this book a rapid reference for materials scientists, analytical chemists, and those working in the biotechnological industry. From a Review of the First Edition (edited by Bubert and Jenett) "... a useful resource..." (Journal of the American

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Chemical Society)

Elementary Real Analysis is a core course in nearly all mathematics departments throughout the world. It enables students to develop a deep understanding of the key concepts of calculus from a mature perspective. Elements of Real Analysis is a student-

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friendly guide to learning all the important ideas of elementary real analysis, based on the author's many years of experience teaching the subject to typical undergraduate mathematics majors. It avoids the compact style of professional mathematics writing, in favor of a style

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that feels more comfortable to students encountering the subject for the first time. It presents topics in ways that are most easily understood, without sacrificing rigor or coverage. In using this book, students discover that real analysis is completely deducible from the axioms of the real number

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system. They learn the powerful techniques of limits of sequences as the primary entry to the concepts of analysis, and see the ubiquitous role sequences play in virtually all later topics. They become comfortable with topological ideas, and see how these concepts help unify the subject.

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Students encounter many interesting examples, including "pathological" ones, that motivate the subject and help fix the concepts. They develop a unified understanding of limits, continuity, differentiability, Riemann integrability, and infinite series of numbers and functions.

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A polar bear and a brown bear help camouflage each other.

The Back Roads to March

Proceedings of a Workshop

A First Course in Complex Analysis
with Applications

Elements of Real Analysis

A Long-Form Mathematics Textbook

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This installment in the New York Times bestselling I Survived series from Lauren Tarshis shines a spotlight on the Normandy landings, just

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in time for the 75th anniversary of D-Day! The forward-thinking techniques you need to manage today's diverse classrooms Contemporary educators know that

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discipline-based
classroom management is
less effective in
today's schools.
Evidence shows that a
strategy of culturally
responsive engagement is

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essential to giving students the best education, whatever their background. In a readable and compelling text, Laura E. Pinto outlines: Keys to

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developing the cultural fluency necessary to prepare all students for success. Exercises for teachers to reflect deeply on how they manage their classrooms,

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and identify areas for improvement. 45 easy strategies—including many that support the Common Core—for boosting engagement and cultural responsiveness in the

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classroom

Unlike any time before
in our lives, we have
access to vast amounts
of free information.

With the right tools, we
can start to make sense

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of all this data to see patterns and trends that would otherwise be invisible to us. By transforming numbers into graphical shapes, we allow readers to

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understand the stories those numbers hide. In this practical introduction to understanding and using information graphics, you'll learn how to use

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data visualizations as
tools to see beyond
lists of numbers and
variables and achieve
new insights into the
complex world around us.
Regardless of the kind

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of data you're working
with—business, science,
politics, sports, or
even your own personal
finances—this book will
show you how to use
statistical charts,

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maps, and explanation diagrams to spot the stories in the data and learn new things from it. You'll also get to peek into the creative process of some of the

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world's most talented
designers and visual
journalists, including
Condé Nast Traveler's
John Grimwade, National
Geographic Magazine's
Fernando Baptista, The

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New York Times' Steve Duenes, The Washington Post's Hannah Fairfield, Hans Rosling of the Gapminder Foundation, Stanford's Geoff McGhee, and European superstars

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Moritz Stefaner, Jan Willem Tulp, Stefanie Posavec, and Gregor Aisch. The book also includes a DVD-ROM containing over 90 minutes of video lessons

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that expand on core
concepts explained
within the book and
includes even more
inspirational
information graphics
from the world's leading

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designers. The first book to offer a broad, hands-on introduction to information graphics and visualization, The Functional Art reveals:

- Why data visualization

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should be thought of as
"functional art" rather
than fine art • How to
use color, type, and
other graphic tools to
make your information
graphics more effective,

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not just better looking

- The science of how our brains perceive and remember information ; •
- Best practices for creating interactive information graphics • A

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comprehensive look at
the creative process
behind successful
information graphics ; •
An extensive gallery of
inspirational work from
the world's top

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designers and visual artists On the DVD-ROM:
In this introductory video course on information graphics, Alberto Cairo goes into greater detail with even

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more visual examples of how to create effective information graphics that function as practical tools for aiding perception. You'll learn how to:

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incorporate basic design principles in your visualizations, create simple interfaces for interactive graphics, and choose the appropriate type of

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graphic forms for your
data. Cairo also
deconstructs successful
information graphics
from The New York Times
and National Geographic
magazine with sketches

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part of the URL. To make sure this is not the case, try reducing your font size and turning your device to a landscape view. This should cause the full

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Theory and Application
Basic Elements of Real
Analysis
From Discipline to
Culturally Responsive
Engagement

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Consists of two separate but closely related parts. Originally published in 1966, the first section deals with elements of integration and has been updated and corrected. The latter half details the main

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concepts of Lebesgue measure and uses the abstract measure space approach of the Lebesgue integral because it strikes directly at the most important results—the convergence theorems.

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Presents mathematical tools and techniques for solving change detection problems in wide domains like signal processing, controlled systems and monitoring. The book covers a wide class of

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stochastic processes, including scalar independent observations and multidimensional dependent ARMA.

This textbook is designed for students. Rather than the

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typical definition-theorem-proof-repeat style, this text includes much more commentary, motivation and explanation. The proofs are not terse, and aim for understanding over economy.

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Furthermore, dozens of proofs are preceded by "scratch work" or a proof sketch to give students a big-picture view and an explanation of how they would come up with it on their own. Examples often drive the

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narrative and challenge the intuition of the reader. The text also aims to make the ideas visible, and contains over 200 illustrations. The writing is relaxed and includes interesting historical notes,

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periodic attempts at humor, and occasional diversions into other interesting areas of mathematics. The text covers the real numbers, cardinality, sequences, series, the topology of the reals, continuity,

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differentiation, integration, and sequences and series of functions. Each chapter ends with exercises, and nearly all include some open questions. The first appendix contains a construction the reals, and the

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second is a collection of additional peculiar and pathological examples from analysis. The author believes most textbooks are extremely overpriced and endeavors to help change this. Hints and

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solutions to select exercises can be found at LongFormMath.com.

With the risk of more than one in three getting cancer during a lifetime, each of us is likely to experience cancer, or know

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someone who has survived cancer. Although some cancer survivors recover with a renewed sense of life and purpose, what has often been ignored is the toll taken by cancer and its treatmentâ€™on

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health, functioning, sense of security, and well-being. Long lasting effects of treatment may be apparent shortly after its completion or arise years later. The transition from active treatment to post-treatment

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care is critical to long-term health. From Cancer Patient to Cancer Survivor focuses on survivors of adult cancer during the phase of care that follows primary treatment. The book raises awareness of the

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medical, functional, and psychosocial consequences of cancer and its treatment. It defines quality health care for cancer survivors and identifies strategies to achieve it. The book also recommends

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improvements in the quality of life of cancer survivors through policies that ensure their access to psychosocial services, fair employment practices, and health insurance. This book will be of

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particular interest to cancer patients and their advocates, health care providers and their leadership, health insurers, employers, research sponsors, and the public and their elected representatives.

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From Cancer Patient to Cancer
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