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Advanced Calculus of Several

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Variables provides a conceptual treatment of multivariable calculus. This book emphasizes the interplay of geometry, analysis through linear algebra, and approximation of nonlinear mappings by linear ones. The classical applications and

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computational methods that are responsible for much of the interest and importance of calculus are also considered. This text is organized into six chapters. Chapter I deals with linear algebra and geometry of Euclidean n -space R^n . The

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multivariable differential calculus is treated in Chapters II and III, while multivariable integral calculus is covered in Chapters IV and V. The last chapter is devoted to venerable problems of the calculus of variations. This publication is

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intended for students who have completed a standard introductory calculus sequence.

"The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond

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what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.

This book provides a rigorous treatment of the fundamental

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concepts and techniques involved in process modeling and simulation.

The book allows the reader to: (i)

Get a solid grasp of “under-the-hood” mathematical results (ii)

Develop models of sophisticated

processes (iii) Transform models to

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different geometries and domains as appropriate (iv) Utilize various model simplification techniques (v) Learn simple and effective computational methods for model simulation (vi) Intensify the effectiveness of their research

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**Modeling and Simulation for
Chemical Engineers: Theory and
Practice begins with an introduction
to the terminology of process
modeling and simulation. Chapters 2
and 3 cover fundamental and
constitutive relations, while Chapter**

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4 on model formulation builds on these relations. Chapters **5** and **6** introduce the advanced techniques of model transformation and simplification. Chapter **7** deals with model simulation, and the final chapter reviews important

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mathematical concepts. Presented in a methodical, systematic way, this book is suitable as a self-study guide or as a graduate reference, and includes examples, schematics and diagrams to enrich understanding. End of chapter problems with

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solutions and computer software available online at www.wiley.com/go/upreti/pms_for_chemical_engineers are designed to further stimulate readers to apply the newly learned concepts.

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application-based reference that provides a single source of mathematical concepts necessary for remote sensing data gathering and assimilation. It presents state-of-the-art techniques for estimating land surface variables from a variety of

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data types, including optical sensors such as RADAR and LIDAR.

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students develop insight
into mathematical ideas.
This author team invests
the same attention to
detail and clarity as Jim
Stewart does in his market-*

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feature sets as the market
leading Precalculus, 8/e,
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*instructors with sound,
consistently structured
explanations of the
mathematical concepts.
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course, this text contains
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of carefully written exercises. In addition to a brief algebra review and the core precalculus topics, PRECALCULUS WITH LIMITS covers analytic geometry in three

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***dimensions and introduces
concepts covered in
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comprehensive exploration
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*offers a wealth of
examples with detailed,
conceptual explanations,
building a strong
foundation in the material
before asking students to
apply what they've*

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audiences. The resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a

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review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other

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***institutions have told us
that they have a cohort
that need the prerequisite
skills built into the
course. Chapter 1:
Prerequisites Chapter 2:
Equations and Inequalities***

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***Chapters 3-6: The
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Chapter 3: Functions
Chapter 4: Linear
Functions Chapter 5:
Polynomial and Rational
Functions Chapter 6:***

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***Exponential and Logarithm
Functions Chapters 7-9:
Further Study in College
Algebra Chapter 7: Systems
of Equations and
Inequalities Chapter 8:
Analytic Geometry Chapter***

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***9: Sequences, Probability
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***First released in the
Spring of 1999, How People
Learn has been expanded to
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book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching

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suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new

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research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is

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this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most effectively?

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New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to

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the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we

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assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new

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knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the

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physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The

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***amazing learning potential
of infants. The
relationship of classroom
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that covers more ground than a typical one- or two-semester college-level precalculus course. The content is organized by clearly-defined learning

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objectives, and includes worked examples that demonstrate problem-solving approaches in an accessible way. Coverage and Scope Precalculus contains twelve

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chapters, roughly divided into three groups. Chapters 1-4 discuss various types of functions, providing a foundation for the remainder of the course.

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Chapter 1: Functions

Chapter 2: Linear

Functions Chapter 3:

Polynomial and Rational

Functions Chapter 4:

Exponential and

Logarithmic Functions

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Chapters 5-8 focus on Trigonometry. In Precalculus, we approach trigonometry by first introducing angles and the unit circle, as opposed to the right

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triangle approach more commonly used in College Algebra and Trigonometry courses. Chapter 5: Trigonometric Functions Chapter 6: Periodic Functions Chapter 7:

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*Trigonometric Identities
and Equations Chapter 8:
Further Applications of
Trigonometry Chapters
9-12 present some
advanced Precalculus
topics that build on*

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topics introduced in chapters 1-8. Most Precalculus syllabi include some of the topics in these chapters, but few include all. Instructors

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can select material as needed from this group of chapters, since they are not cumulative.

Chapter 9: Systems of Equations and

Inequalities Chapter 10:

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Analytic Geometry

*Chapter 11: Sequences,
Probability and Counting*

Theory Chapter 12:

*Introduction to Calculus
Modern and*

comprehensive, the new

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compendium of topics
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mathematics courses, and*

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economists and a
reference for graduate
students in economics.
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university, the book delivers the mathematical foundation needed in an engineering program of study. Other treatments typically provide a thorough but

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somewhat complicated presentation where students do not appreciate the application. This book focuses on the development of tools to

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*solve most types of
mathematical problems
that arise in
engineering - a
“toolbox” for the
engineer. It provides an
important foundation but*

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*goes one step further
and demonstrates the
practical use of new
technology for applied
analysis with commercial
software packages (e.g.,
algebraic, numerical and*

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statistical). *Delivers a
focused and concise
treatment on the
underlying theory and
direct application of
mathematical methods so
that the reader has a*

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*collection of important
mathematical tools that
are easily understood
and ready for
application as a
practicing engineer The
book material has been*

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*derived from class-
tested courses presented
over many years in
applied mathematics for
engineering students
(all problem sets and
exam questions given for*

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*the course(s) are
included along with a
solution manual)*

*Provides fundamental
theory for applied
mathematics while also
introducing the*

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*application of
commercial software
packages as modern tools
for engineering
application, including:
EXCEL (statistical
analysis); MAPLE*

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*(symbolic and numeric
computing environment);
and COMSOL (finite
element solver for
ordinary and partial
differential equations)*

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Teacher Guide

*Mathematics of Classical
and Quantum Physics*

Mathematics for Calculus

Precalculus with

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Mathematical Concepts and
Methods in Modern Biology
offers a quantitative
framework for analyzing,
predicting, and modulating the
behavior of complex

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real biological research
examples using freely
available computational tools
Spans several mathematical
techniques at basic to
advanced levels Offers broad
perspective on the uses of

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algebraic

geometry/polynomial algebra

in molecular systems biology

Mathematical modeling is both
a skill and an art and must be
practiced in order to maintain
and enhance the ability to use

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those skills. Though the topics covered in this book are the typical topics of most mathematical modeling courses, this book is best used for individuals or groups who have already taken an

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introductory mathematical modeling course. Advanced Mathematical Modeling with Technology will be of interest to instructors and students offering courses focused on discrete modeling or modeling

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for decision making. Each chapter begins with a problem to motivate the reader. The problem tells "what" the issue is or problem that needs to be solved. In each chapter, the authors apply the principles

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of mathematical modeling to that problem and present the steps in obtaining a model.

The key focus is the mathematical model and the technology is presented as a method to solve that model or

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perform sensitivity analysis.

We have selected , where applicable to the content because of their wide accessibility. The authors utilize technology to build, compute, or implement the

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model and then analyze the it.
Features: MAPLE©, Excel©,
and R© to support the
mathematical modeling
process. Excel templates,
macros, and programs are
available upon request from

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authors. Maple templates and example solution are also available. Includes coverage of mathematical programming. The power and limitations of simulations is covered. Introduces multi-attribute

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decision making (MADM) and game theory for solving problems. The book provides an overview to the decision maker of the wide range of applications of quantitative approaches to aid in the

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decision making process, and present a framework for decision making. Table of Contents 1. Perfect Partners: Mathematical Modeling and Technology 2. Review of Modeling with Discrete

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Dynamical Systems and
Modeling Systems of DDS 3.
Modeling with Differential
Equations 4. Modeling
System of Ordinary
Differential Equation 5.
Regression and Advanced

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Regression Methods and
Models 6. Linear, Integer and
Mixed Integer Programming
7. Nonlinear Optimization
Methods 8. Multivariable
Optimization 9. Simulation
Models 10. Modeling Decision

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Making with Multi-Attribute
Decision Modeling with
Technology 11. Modeling
with Game Theory 12.
Appendix Using R Index
Biographies Dr. William P.
Fox is currently a visiting

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professor of Computational
Operations Research at the
College of William and Mary.
He is an emeritus professor
in the Department of Defense
Analysis at the Naval
Postgraduate School and

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teaches a three-course sequence in mathematical modeling for decision making. He received his Ph.D. in Industrial Engineering from Clemson University. He has taught at the United States

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Military Academy for twelve years until retiring and at Francis Marion University where he was the chair of mathematics for eight years. He has many publications and scholarly activities including

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twenty plus books and one hundred and fifty journal articles. Colonel (R) Robert E. Burks, Jr., Ph.D. is an Associate Professor in the Defense Analysis Department of the Naval Postgraduate

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School (NPS) and the
Director of the NPS ' Wargaming Center. He holds
a Ph.D. in Operations
Research from the Air Force
Institute of Technology. He is
a retired logistics Army

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Colonel with more than thirty years of military experience in leadership, advanced analytics, decision modeling, and logistics operations who served as an Army Operations Research analyst

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at the Naval Postgraduate School, TRADOC Analysis Center, United States Military Academy, and the United States Army Recruiting Command.

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Learning Discrete

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raises two issues. We have chosen the word "Learning" rather than "Teaching"

because we think that what the student does in order to

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learn is much more important than what the professor does in order to teach. Academia is filled with outstanding mathematics teachers: excellent expositors, good organizers, hard workers,

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men and women who have a deep understanding of Mathematics and its applications. Yet, when it comes to ideas in Mathematics, our students do not seem to be learning. It may

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be that something more is needed and we have tried to construct a book that might provide a different kind of help to the student in acquiring some of the fundamental concepts of

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Mathematics. In a number of ways we have made choices that seem to us to be the best for learning, even if they don't always completely agree with standard teaching practice. A second issue

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concerns students' writing programs. ISETL is a programming language and by the phrase "with ISETL" in the title, we mean that our intention is for students to write code, think about what

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they have written, predict its results, and run their programs to check their predictions. There is a trade-off here. On the one hand, it can be argued that students' active involvement with

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constructing Mathematics for themselves and solving problems is essential to understanding concepts.

Thirty years ago, biologists could get by with a rudimentary grasp of

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mathematics and modeling.

Not so today. In seeking to

answer fundamental

questions about how

biological systems function

and change over time, the

modern biologist is as likely

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to rely on sophisticated mathematical and computer-based models as traditional fieldwork. In this book, Sarah Otto and Troy Day provide biology students with the tools necessary to both

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interpret models and to build their own. The book starts at an elementary level of mathematical modeling, assuming that the reader has had high school mathematics and first-year calculus. Otto

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and Day then gradually build in depth and complexity, from classic models in ecology and evolution to more intricate class-structured and probabilistic models. The authors provide primers with

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instructive exercises to introduce readers to the more advanced subjects of linear algebra and probability theory. Through examples, they describe how models have been used to understand

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such topics as the spread of HIV, chaos, the age structure of a country, speciation, and extinction. Ecologists and evolutionary biologists today need enough mathematical training to be able to assess

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the power and limits of biological models and to develop theories and models themselves. This innovative book will be an indispensable guide to the world of mathematical models for the

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next generation of biologists.
A how-to guide for
developing new mathematical
models in biology Provides
step-by-step recipes for
constructing and analyzing
models Interesting biological

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applications Explores
classical models in ecology
and evolution Questions at
the end of every chapter
Primers cover important
mathematical topics
Exercises with answers

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Appendixes summarize useful
rules Labs and advanced
material available
How People Learn
Precalculus with Discrete
Mathematics and Data
Analysis

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Algebra and Trigonometry

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Intermediate Algebra 2e

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Concepts provides

comprehensive coverage of all

the topics covered in a full-year

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used in the real world. Features new to this edition include: The addition of Systems Modeling Language (SysML) to several of the chapters, as well as the introduction of new terminology. Additional material on

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partitioning functions and components More descriptive material on usage scenarios based on literature from use case development Updated homework assignments The software product CORE (from

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Vitech Corporation) is used to generate the traditional SE figures and the software product MagicDraw UML with SysML plugins (from No Magic, Inc.) is used for the SysML figures This book is designed to be an

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introductory reference and textbook for professionals and students in systems engineering. It is also useful in related courses in engineering programs that emphasize design methods and models.

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Integration is the sixth and last of the books that form the core of the Bourbaki series; it draws abundantly on the preceding five Books, especially General Topology and Topological Vector Spaces, making it a culmination of the core six. The power of the tool thus fashioned is

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strikingly displayed in Chapter II of the author's *Théories Spectrales*, an exposition, in a mere 38 pages, of abstract harmonic analysis and the structure of locally compact abelian groups. The first volume of the English translation comprises Chapters 1-6; the present volume completes the

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translation with the remaining Chapters 7-9. Chapters 1-5 received very substantial revisions in a second edition, including changes to some fundamental definitions. Chapters 6-8 are based on the first editions of Chapters 1-5. The English edition has given the author the opportunity to

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correct misprints, update references, clarify the concordance of Chapter 6 with the second editions of Chapters 1-5, and revise the definition of a key concept in Chapter 6 (measurable equivalence relations).

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Advanced Engineering Mathematics

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with MATLAB, the author presented a wide variety of topics needed by today's engineers. The fifth edition of that book, available now, has been broken into two parts: topics currently needed in mathematics courses and a new stand-alone volume presenting topics not often included in these

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courses and consequently unknown to engineering students and many professionals. The overall structure of this new book consists of two parts: transform methods and random processes. Built upon a foundation of applied complex variables, the first part covers advanced transform

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methods, as well as z-transforms and Hilbert transforms--transforms of particular interest to systems, communication, and electrical engineers. This portion concludes with Green's function, a powerful method of analyzing systems. The second portion presents random

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processes--processes that more accurately model physical and biological engineering. Of particular interest is the inclusion of stochastic calculus. The author continues to offer a wealth of examples and applications from the scientific and engineering literature, a highlight of his previous

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books. As before, theory is presented first, then examples, and then drill problems. Answers are given in the back of the book. This book is all about the future: The purpose of this book is not only to educate the present generation of engineers but also the next. "The main strength is the text is

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written from an engineering perspective. The majority of my students are engineers. The physical examples are related to problems of interest to the engineering students."

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