

## Y3t Ebook

This volume provides practical solutions and introduces recent theoretical developments in risk management, pricing of credit derivatives, quantification of volatility and copula modeling. This third edition is devoted to modern risk analysis based on quantitative methods and textual analytics to meet the current challenges in banking and finance. It includes 14 new contributions and presents a comprehensive, state-of-the-art treatment of cutting-edge methods and topics, such as collateralized debt obligations, the high-frequency analysis of market liquidity, and realized volatility. The book is divided into three parts: Part 1 revisits important market risk issues, while Part 2 introduces novel concepts in credit risk and its management along with updated quantitative methods. The third part discusses the dynamics of risk management and includes risk analysis of energy markets and for cryptocurrencies. Digital assets, such as blockchain-based currencies, have become popular but are theoretically challenging when based on conventional methods. Among others, it introduces a modern text-mining method called dynamic topic modeling in detail and applies it to the message board of Bitcoins. The unique synthesis of theory and practice supported by computational tools is reflected not only in the selection of topics, but also in the fine balance of scientific contributions on practical implementation and theoretical concepts. This link between theory and practice offers theoreticians insights into considerations of applicability and, vice versa, provides practitioners

convenient access to new techniques in quantitative finance. Hence the book will appeal both to researchers, including master and PhD students, and practitioners, such as financial engineers. The results presented in the book are fully reproducible and all quantlets needed for calculations are provided on an accompanying website. The Quantlet platform [quantlet.de](http://quantlet.de), [quantlet.com](http://quantlet.com), [quantlet.org](http://quantlet.org) is an integrated QuantNet environment consisting of different types of statistics-related documents and program codes. Its goal is to promote reproducibility and offer a platform for sharing validated knowledge native to the social web. QuantNet and the corresponding Data-Driven Documents-based visualization allows readers to reproduce the tables, pictures and calculations inside this Springer book.

*Evolution of Stars and Stellar Populations* is a comprehensive presentation of the theory of stellar evolution and its application to the study of stellar populations in galaxies. Taking a unique approach to the subject, this self-contained text introduces first the theory of stellar evolution in a clear and accessible manner, with particular emphasis placed on explaining the evolution with time of observable stellar properties, such as luminosities and surface chemical abundances. This is followed by a detailed presentation and discussion of a broad range of related techniques, that are widely applied by researchers in the field to investigate the formation and evolution of galaxies. This book will be invaluable for undergraduates and graduate students in astronomy and astrophysics, and will also be of interest to researchers working in the field of Galactic,

extragalactic astronomy and cosmology. comprehensive presentation of stellar evolution theory introduces the concept of stellar population and describes "stellar population synthesis" methods to study ages and star formation histories of star clusters and galaxies presents stellar evolution as a tool for investigating the evolution of galaxies and of the universe in general

Random Operator Theory provides a comprehensive discussion of the random norm of random bounded linear operators, also providing important random norms as random norms of differentiation operators and integral operators. After providing the basic definition of random norm of random bounded linear operators, the book then delves into the study of random operator theory, with final sections discussing the concept of random Banach algebras and its applications. Explores random differentiation and random integral equations Delves into the study of random operator theory Discusses the concept of random Banach algebras and its applications Ginny Nadler has found an important connection between the physical pain you experience and the energetic roadblocks that are deeper in the cell structure, in the very fabric of your being. In *Spiritual Anatomy*, she presents a powerful approach for unraveling your deeply entangled distortions and bringing your body back into alignment.

This well-respected text introduces the theory and application of modern numerical approximation techniques to students taking a one- or two-semester course in numerical analysis. Providing an accessible treatment that only requires a calculus prerequisite, the

authors explain how, why, and when approximation techniques can be expected to work-and why, in some situations, they fail. A wealth of examples and exercises develop students' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. The first book of its kind when crafted more than 30 years ago to serve a diverse undergraduate audience, Burden, Faires, and Burden's NUMERICAL ANALYSIS remains the definitive introduction to a vital and practical subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Leverage the numerical and mathematical modules in Python and its standard library as well as popular open source numerical Python packages like NumPy, SciPy, FiPy, matplotlib and more. This fully revised edition, updated with the latest details of each package and changes to Jupyter projects, demonstrates how to numerically compute solutions and mathematically model applications in big data, cloud computing, financial engineering, business management and more.

Numerical Python, Second Edition, presents many brand-new case study examples of applications in data science and statistics using Python, along with extensions to many previous examples. Each of these demonstrates the power of Python for rapid development and exploratory computing due to its simple and high-level syntax and multiple options for data analysis. After reading this book, readers will be familiar with many

computing techniques including array-based and symbolic computing, visualization and numerical file I/O, equation solving, optimization, interpolation and integration, and domain-specific computational problems, such as differential equation solving, data analysis, statistical modeling and machine learning. What You'll Learn Work with vectors and matrices using NumPy Plot and visualize data with Matplotlib Perform data analysis tasks with Pandas and SciPy Review statistical modeling and machine learning with statsmodels and scikit-learn Optimize Python code using Numba and Cython Who This Book Is For Developers who want to understand how to use Python and its related ecosystem for numerical computing.

Intended as a companion for textbooks in mathematical methods for science and engineering, this book presents a large number of numerical topics and exercises together with discussions of methods for solving such problems using Mathematica(R). Although it is primarily designed for use with the author's "Mathematical Methods: For Students of Physics and Related Fields," the discussions in the book sufficiently self-contained that the book can be used as a supplement to any of the standard textbooks in mathematical methods for undergraduate students of physical sciences or engineering.

Gain a solid understanding of the principles of trigonometry and how these concepts apply to real life with McKeague/Turner's TRIGONOMETRY. This book's proven approach presents contemporary concepts in brief, manageable sections using current,

detailed examples and interesting applications. Captivating illustrations such as cycling, the Ferris wheel, and even the human cannonball, show trigonometry in action. Unique Historical Vignettes offer a fascinating glimpse at how many of the central ideas in trigonometry began. The text is easy to read, and important theorems and definitions are boxed so they can be quickly identified for study purposes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book provides developers, engineers, researchers and students with detailed knowledge about the High Efficiency Video Coding (HEVC) standard. HEVC is the successor to the widely successful H.264/AVC video compression standard, and it provides around twice as much compression as H.264/AVC for the same level of quality. The applications for HEVC will not only cover the space of the well-known current uses and capabilities of digital video – they will also include the deployment of new services and the delivery of enhanced video quality, such as ultra-high-definition television (UHDTV) and video with higher dynamic range, wider range of representable color, and greater representation precision than what is typically found today. HEVC is the next major generation of video coding design – a flexible, reliable and robust solution that will support the next decade of video applications and ease the burden of video on world-wide network traffic. This book provides a detailed explanation of the various parts of the standard, insight into how it was developed, and in-depth discussion of algorithms and architectures for its

implementation.

This best-selling textbook addresses the need for an introduction to econometrics specifically written for finance students. Key features:

- Thoroughly revised and updated, including two new chapters on panel data and limited dependent variable models
- Problem-solving approach assumes no prior knowledge of econometrics emphasising intuition rather than formulae, giving students the skills and confidence to estimate and interpret models
- Detailed examples and case studies from finance show students how techniques are applied in real research
- Sample instructions and output from the popular computer package EViews enable students to implement models themselves and understand how to interpret results
- Gives advice on planning and executing a project in empirical finance, preparing students for using econometrics in practice
- Covers important modern topics such as time-series forecasting, volatility modelling, switching models and simulation methods
- Thoroughly class-tested in leading finance schools. Bundle with EViews student version 6 available. Please contact us for more details.

The first edition of this book has established itself as one of the leading references on generalized additive models (GAMs), and the only book on the topic to be introductory in nature with a wealth of practical examples and software implementation. It is self-contained, providing the necessary background in linear models, linear mixed models, and generalized linear models (GLMs), before presenting a balanced treatment of the theory and applications of GAMs and related models.

The author bases his approach on a framework of penalized regression splines, and while firmly focused on the practical aspects of GAMs, discussions include fairly full explanations of the theory underlying the methods. Use of R software helps explain the theory and illustrates the practical application of the methodology. Each chapter contains an extensive set of exercises, with solutions in an appendix or in the book's R data package `gamair`, to enable use as a course text or for self-study. Simon N. Wood is a professor of Statistical Science at the University of Bristol, UK, and author of the R package `mgcv`.

This book is a self-contained introduction to the theory of signals and systems, which lies at the basis of many areas of electrical and computer engineering. In the seventy short lectures, which are formatted to facilitate self-learning and to provide easy reference, the book covers such topics as linear time-invariant (LTI) systems, the Fourier transform, the Laplace Transform and its application to LTI differential systems, state-space systems, the z-transform, signal analysis using MATLAB, and the application of transform techniques to communication systems. A wide array of technologies, including feedback control, analog and discrete-time filters, modulation, and sampling systems are discussed in connection with their basis in signals and systems theory. The accompanying CD-ROM includes applets, source code, sample examinations, and exercises with selected solutions.

This book provides a balanced and integrated presentation of modelling and simulation activity for both

Discrete Event Dynamic Systems (DEDS) and Continuous Time Dynamic Systems (CYDS). The authors establish a clear distinction between the activity of modelling and that of simulation, maintaining this distinction throughout. The text offers a novel project-oriented approach for developing the modelling and simulation methodology, providing a solid basis for demonstrating the dependency of model structure and granularity on project goals. Comprehensive presentation of the verification and validation activities within the modelling and simulation context is also shown.

This textbook provides an introduction to numerical computing and its applications in science and engineering. The topics covered include those usually found in an introductory course, as well as those that arise in data analysis. This includes optimization and regression based methods using a singular value decomposition. The emphasis is on problem solving, and there are numerous exercises throughout the text concerning applications in engineering and science. The essential role of the mathematical theory underlying the methods is also considered, both for understanding how the method works, as well as how the error in the computation depends on the method being used. The MATLAB codes used to produce most of the figures and data tables in the text are available on the author's website and SpringerLink.

Computational physics is a rapidly growing subfield of computational science, in large part because computers can solve previously intractable problems or simulate

natural processes that do not have analytic solutions. The next step beyond Landau's First Course in Scientific Computing and a follow-up to Landau and Páez's Computational Physics, this text presents a broad survey of key topics in computational physics for advanced undergraduates and beginning graduate students, including new discussions of visualization tools, wavelet analysis, molecular dynamics, and computational fluid dynamics. By treating science, applied mathematics, and computer science together, the book reveals how this knowledge base can be applied to a wider range of real-world problems than computational physics texts normally address. Designed for a one- or two-semester course, A Survey of Computational Physics will also interest anyone who wants a reference on or practical experience in the basics of computational physics. Accessible to advanced undergraduates Real-world problem-solving approach Java codes and applets integrated with text Companion Web site includes videos of lectures

The intent of this book is to present a methodology for the formulation and computer implementation of mathematical models based on time delay ordinary differential equations (DODEs) and partial differential equations (DPDEs) in biomedical science and engineering (BMSE). The book applies DODE/DPDE models to biological/physiological systems through a series of examples. The first chapter has four example DODE applications that illustrate various properties of delayed systems. This discussion is then extended in the second chapter to an introductory DPDE model with the

model solution presented as spatiotemporal numerical and 2D and 3D graphical (plotted) output. Subsequent chapters pertain to a series of DPDEBMSE applications. The author facilitates the use of the models with reasonable time and effort on modest computers. The book is intended for medical researchers, medical clinicians, biophysicists, biochemists, biomedical engineers, chemical engineers, applied mathematicians, and applied numerical analysts. The book can also be used at the graduate level for courses in computer-based numerical analysis of delay differential equations. R routines are included throughout the text, and readers can access the R compiler (system) from the Internet to execute the downloaded R routines.

- Introduces time delay ordinary and partial differential equations (DODE/DPDEs) and their numerical computer-based integration (solution)
- Illustrates the computer implementation of DODE/DPDE models with coding (programming) in R, a quality, open-source scientific programming system readily available from the Internet
- Applies DODE/DPDE models to biological/physiological systems through a series of examples
- Provides the R routines for all of the illustrative applications through a download link
- Facilitates the use of the models with reasonable time and effort on modest computers

The latest edition of Swokowski and Cole's **PRECALCULUS: FUNCTIONS AND GRAPHS** retains the elements that have made it so popular with instructors and students alike: clear exposition, an appealing and uncluttered layout, and

applications-rich exercise sets. The excellent, time-tested problems have been widely praised for their consistency and their appropriate level of difficulty for precalculus students. The book also provides calculator examples, including specific keystrokes that show students how to use various graphing calculators to solve problems more quickly. The Twelfth Edition features updated topical references and data, and continues to be supported by outstanding technology resources. Mathematically sound, this book effectively prepares students for further courses in mathematics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

CALCULUS OF A SINGLE VARIABLE: EARLY TRANSCENDENTAL FUNCTIONS, Sixth Edition, offers students innovative learning resources. Every edition from the first to the sixth of CALCULUS: EARLY TRANSCENDENTAL FUNCTIONS has made the mastery of traditional calculus skills a priority, while embracing the best features of new technology and, when appropriate, calculus reform ideas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Incorporating an innovative modeling approach, this book for a one-semester differential equations course emphasizes conceptual understanding to

help users relate information taught in the classroom to real-world experiences. Certain models reappear throughout the book as running themes to synthesize different concepts from multiple angles, and a dynamical systems focus emphasizes predicting the long-term behavior of these recurring models. Users will discover how to identify and harness the mathematics they will use in their careers, and apply it effectively outside the classroom. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Do your students attempt to memorize facts and mimic examples to make it through algebra? James Stewart, author of the worldwide, best-selling calculus texts, saw this scenario time and again in his classes. So, along with longtime coauthors Lothar Redlin and Saleem Watson, he wrote COLLEGE ALGEBRA specifically to help students learn to think mathematically and to develop genuine problem-solving skills. Comprehensive and evenly-paced, the text has helped hundreds of thousands of students. Incorporating technology, real-world applications, and additional useful pedagogy, the Seventh Edition promises to help more students than ever build conceptual understanding and a core of fundamental skills. Important Notice: Media content referenced within the product description or the

product text may not be available in the ebook version.

Stop counting calories and transform your body while eating all the foods you love with The Everything Macro Diet Cookbook! You can finally stop counting calories and start eating foods that bring you joy! With the macro diet, no food is off limits. You can eat just about anything, just in specific portion sizes and still lose weight and gain lean muscle. The Everything Macro Diet Cookbook is an introduction to this flexible diet that can help anyone lose weight without having to avoid your favorite foods that may contain fats or carbs. Based on the simple formula that balances the daily intake of protein, fat, and carbohydrates, the macro diet is gaining in popularity as people discover they can shed pounds without feeling deprived. The Everything Macro Diet Cookbook not only includes an introduction to the diet that is changing lives, but also 300 recipes for every meal and sample meal plans to make shopping and meal prep easier than ever! This book gives you all you need to transform your body while eating what you love!

Ebook: Fundamental Methods of Mathematical Economics

This is not a book of magic secrets. Instead, it's a book that boils away the nonsense, leaving you with the mechanisms that truly drive gains. This book presents my core training philosophies and

principles, and the Rep Goal System. Future books will build off these principles, and show you many other workout programs and systems that will help you to build muscle and strength. Never waste a set. That is what this book is about. My lifting philosophy is simple: When you maximize every set, you maximize every workout. When you maximize every workout, you maximize progress. It doesn't get any easier than that, does it? Nothing complicated about this approach, yet it's not exactly something you hear talked about in the lifting industry every day. The life and training philosophy of the World's Best Bodybuilder, this is the ultimate bodybuilding guide from the ultimate bodybuilder. With the current proliferation of bodybuilding and fitness books, what makes the words of Dorian Yates so meaningful? During the 1980s and early 1990s there was significant work in the design and implementation of hardware neurocomputers. Nevertheless, most of these efforts may be judged to have been unsuccessful: at no time have hardware neurocomputers been in wide use. This lack of success may be largely attributed to the fact that earlier work was almost entirely aimed at developing custom neurocomputers, based on ASIC technology, but for such niche - eas this technology was never sufficiently developed or competitive enough to justify large-scale adoption. On the other hand, gate-arrays of the period mentioned were never large enough nor fast enough for serious artificial-neural-network (ANN) applications. But technology has now improved: the

capacity and performance of current FPGAs are such that they present a much more realistic alternative. Consequently neurocomputers based on FPGAs are now a much more practical proposition than they have been in the past. This book summarizes some work towards this goal and consists of 12 papers that were selected, after review, from a number of submissions. The book is nominally divided into three parts: Chapters 1 through 4 deal with foundational issues; Chapters 5 through 11 deal with a variety of implementations; and Chapter 12 looks at the lessons learned from a large-scale project and also reconsiders design issues in light of current and future technology.

Almost every year, a new book on mathematical modeling is published, so, why another? The answer springs directly from the fact that it is very rare to find a book that covers modeling with all types of differential equations in one volume. Until now. *Mathematical Modeling: Models, Analysis and Applications* covers modeling with all kinds of differential equations, namely ordinary, partial, delay, and stochastic. The book also contains a chapter on discrete modeling, consisting of differential equations, making it a complete textbook on this important skill needed for the study of science, engineering, and social sciences. More than just a textbook, this how-to guide presents tools for mathematical modeling and analysis. It offers a wide-ranging overview of mathematical ideas and techniques that provide a number of effective approaches to problem solving. Topics covered include spatial, delayed, and stochastic modeling. The text provides real-life

examples of discrete and continuous mathematical modeling scenarios. MATLAB® and Mathematica® are incorporated throughout the text. The examples and exercises in each chapter can be used as problems in a project. Since mathematical modeling involves a diverse range of skills and tools, the author focuses on techniques that will be of particular interest to engineers, scientists, and others who use models of discrete and continuous systems. He gives students a foundation for understanding and using the mathematics that is the basis of computers, and therefore a foundation for success in engineering and science streams.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For sophomore/junior-level signals and systems courses in Electrical and Computer Engineering departments. Signals, Systems, and Transforms, Fourth Edition is ideal for electrical and computer engineers. The text provides a clear, comprehensive presentation of both the theory and applications in signals, systems, and transforms. It presents the mathematical background of signals and systems, including the Fourier transform, the Fourier series, the Laplace transform, the discrete-time and the discrete Fourier transforms, and the z-transform. The text integrates MATLAB examples into the presentation of signal and system theory and applications.

The book investigates the misapplication of conventional statistical techniques to fat tailed distributions and looks for remedies, when possible. Switching from thin tailed to

fat tailed distributions requires more than "changing the color of the dress." Traditional asymptotics deal mainly with either  $n=1$  or  $n=?$ , and the real world is in between, under the "laws of the medium numbers"-which vary widely across specific distributions. Both the law of large numbers and the generalized central limit mechanisms operate in highly idiosyncratic ways outside the standard Gaussian or Levy-Stable basins of convergence. A few examples: - The sample mean is rarely in line with the population mean, with effect on "naïve empiricism," but can be sometimes be estimated via parametric methods. - The "empirical distribution" is rarely empirical. - Parameter uncertainty has compounding effects on statistical metrics. - Dimension reduction (principal components) fails. - Inequality estimators (Gini or quantile contributions) are not additive and produce wrong results. - Many "biases" found in psychology become entirely rational under more sophisticated probability distributions. - Most of the failures of financial economics, econometrics, and behavioral economics can be attributed to using the wrong distributions. This book, the first volume of the Technical Incerto, weaves a narrative around published journal articles. Focusing on applications rather than rigorous proofs, this volume is suitable for upper-level undergraduates and graduate students concerned with vibration problems. In addition, it serves as a practical handbook for performing vibration calculations. An introductory chapter on fundamental concepts is succeeded by explorations of frequency response of linear systems and general response properties, matrix analysis, natural frequencies

and mode shapes, singular and defective matrices, and numerical methods for modal analysis. Additional topics include response functions and their applications, discrete response calculations, systems with symmetric matrices, continuous systems, and parametric and nonlinear effects. The text is supplemented by extensive appendices and answers to selected problems. This volume functions as a companion to the author's introductory volume on random vibrations (see below). Each text can be read separately; and together, they cover the entire field of mechanical vibrations analysis, including random and nonlinear vibrations and digital data analysis.

One of the best available works on matrix theory in the context of modern algebra, this text bridges the gap between ordinary undergraduate studies and completely abstract mathematics. 1952 edition.

Amstat News asked three review editors to rate their top five favorite books in the September 2003 issue. *Methods of Multivariate Analysis* was among those chosen. When measuring several variables on a complex experimental unit, it is often necessary to analyze the variables simultaneously, rather than isolate them and consider them individually. Multivariate analysis enables researchers to explore the joint performance of such variables and to determine the effect of each variable in the presence of the others. The Second Edition of Alvin Rencher's *Methods of Multivariate Analysis* provides students of all statistical backgrounds with both the fundamental and more sophisticated skills necessary to master the discipline. To illustrate

multivariate applications, the author provides examples and exercises based on fifty-nine real data sets from a wide variety of scientific fields. Rencher takes a "methods" approach to his subject, with an emphasis on how students and practitioners can employ multivariate analysis in real-life situations. The Second Edition contains revised and updated chapters from the critically acclaimed First Edition as well as brand-new chapters on: Cluster analysis Multidimensional scaling Correspondence analysis Biplots Each chapter contains exercises, with corresponding answers and hints in the appendix, providing students the opportunity to test and extend their understanding of the subject. *Methods of Multivariate Analysis* provides an authoritative reference for statistics students as well as for practicing scientists and clinicians.

This bestselling author team explains concepts simply and clearly, without glossing over difficult points. Problem solving and mathematical modeling are introduced early and reinforced throughout, providing students with a solid foundation in the principles of mathematical thinking. Comprehensive and evenly paced, the book provides complete coverage of the function concept, and integrates a significant amount of graphing calculator material to help students develop insight into mathematical ideas. The authors' attention to detail and clarity—the same as found in James Stewart's market-leading Calculus text—is what makes this text the market leader. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

75 One-Pan Keto Recipes! We're all so busy, eating healthy can be quite a challenge. Here are quick, easy, and delicious meals for your whole family. The ketogenic diet (commonly referred to as “keto”) is a way of eating that restricts carbohydrate consumption and forces your body to use fat as its main energy source. It also helps naturally to suppress the appetite, lower blood sugar, and improve overall health and energy. Carbs are easy and delicious, it’s true. Most of us would say that we’ll never let them go, no matter what. But once you’ve tasted the recipes in this book, you might very well find that you don’t miss them at all! Every recipe in this cookbook adheres to nutritional ketogenic guidelines and centers around each kind of protein—even vegetarian options! Even better, sheet pan recipes are easy to modify to please even the pickiest eaters, child and adult alike! The Keto Sheet Pan Cookbook has something for everyone, with nutrition info included with every recipe to make sure what you’re cooking fits your family’s needs. Find recipes such as: Thai Glazed Salmon with Vegetables Steak Fajitas Eggs, Kale, and Bacon Buffalo Chicken Meatballs with Bleu Cheese Cauliflower Teriyaki Chicken with Cauliflower Rice No-Bake Cookie Dough Cheesecake

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Continuous-system simulation is an increasingly important tool for optimizing the performance of real-

world systems. The book presents an integrated treatment of continuous simulation with all the background and essential prerequisites in one setting. It features updated chapters and two new sections on Black Swan and the Stochastic Information Packet (SIP) and Stochastic Library Units with Relationships Preserved (SLURP) Standard. The new edition includes basic concepts, mathematical tools, and the common principles of various simulation models for different phenomena, as well as an abundance of case studies, real-world examples, homework problems, and equations to develop a practical understanding of concepts.

Multilevel Inverters: Conventional and Emerging Topologies and Their Control is written with two primary objectives: (a) explanation of fundamentals of multilevel inverters (MLIs) with reference to the general philosophy of power electronics; and (b) enabling the reader to systematically analyze a given topology with the possibility of contributing towards the ongoing evolution of topologies. The authors also present an updated status of current research in the field of MLIs with an emphasis on the evolution of newer topologies. In addition, the work includes a universal control scheme, with which any given topology can be modulated. Extensive qualitative and quantitative evaluations of emerging topologies give researchers and industry professionals suitable solutions for specific applications with a systematic presentation of software-based modeling and simulation, and an exploration of key issues. Topics covered also include power distribution

among sources, voltage balancing, optimization switching frequency and asymmetric source configuration. This valuable reference further provides tools to model and simulate conventional and emerging topologies using MATLAB®/Simulink® and discusses execution of experimental set-up using popular interfacing tools. The book includes a Foreword by Dr. Frede Blaabjerg, Fellow IEEE, Professor and VILLUM Investigator, Aalborg University, Denmark. Includes a universal control scheme to help the reader learn the control of existing topologies and those which can be proposed in the future Presents three new topologies. Systematic development of these topologies and subsequent simulation and experimental studies exemplify an approach to the development of newer topologies and verification of their working and experimental verification. Contains a systematic and step-by-step approach to modelling and simulating various topologies designed to effectively employ low-power applications

This monograph develops the theory of pre-Riesz spaces, which are the partially ordered vector spaces that embed order densely into Riesz spaces. Concepts from Riesz space theory such as disjointness, ideals, and bands are extended to pre-Riesz spaces. The analysis revolves around embedding techniques, including the Riesz completion and the functional representation. In the same spirit, norms and topologies on a pre-Riesz space and their extensions to the Riesz completion are examined. The generalized concepts are used to investigate disjointness preserving operators on

pre-Riesz spaces and related notions. The monograph presents recent results as well as being an accessible introduction to the theory of partially ordered vector spaces and positive operators. Contents A primer on ordered vector spaces Embeddings, covers, and completions Seminorms on pre-Riesz spaces Disjointness, bands, and ideals in pre-Riesz spaces Operators on pre-Riesz spaces Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

FROM THE SHADOW is the story of a country boy who endured a series of tragic events, leaving him alone in a big city. The cruel hand of fate had one more blow: a young offenders' institution. There, in his darkest hour, it would be the bars he lifted, not those that bound him, which would finally change the trajectory of his life - forever. Dorian Yates' disarming honesty would lead to a reader of an early manuscript saying of FROM THE SHADOW, "I had to force myself to put it down -- the thought of finishing it, of the most real thing I'd ever read coming to an end, was unbearable.

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