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Expert Rev Proteomics. 2009;6(4):421-431. Thus far, many groups have been working in the study of serum protein changes during the

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development of liver fibrosis. [54–58] It was of great clinical ...

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This text takes advantage of recent developments in the theory of path integration and attempts to make a major paradigm shift in how the art of functional integration is practiced. The techniques developed in the work will prove valuable to graduate students and researchers in physics, chemistry, mathematical physics, and applied mathematics who find it necessary to deal with solutions to wave equations, both quantum and beyond. A Modern Approach to Functional Integration offers insight into a number of contemporary research topics, which may lead to improved methods and results that cannot be found elsewhere in the textbook literature. Exercises are included in most chapters, making the book suitable for a one-semester graduate course on functional integration.

Introduction to Functional Data Analysis provides a concise textbook introduction to the field. It explains how to analyze functional data, both at exploratory and inferential levels. It also provides a

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systematic and accessible exposition of the methodology and the required mathematical framework. The book can be used as textbook for a semester-long course on FDA for advanced undergraduate or MS statistics majors, as well as for MS and PhD students in other disciplines, including applied mathematics, environmental science, public health, medical research, geophysical sciences and economics. It can also be used for self-study and as a reference for researchers in those fields who wish to acquire solid understanding of FDA methodology and practical guidance for its implementation. Each chapter contains plentiful examples of relevant R code and theoretical and data analytic problems. The material of the book can be roughly divided into four parts of approximately equal length: 1) basic concepts and techniques of FDA, 2) functional regression models, 3) sparse and dependent functional data, and 4) introduction to the Hilbert space framework of FDA. The book assumes advanced undergraduate background in calculus, linear algebra, distributional probability theory, foundations of statistical inference, and some familiarity with R programming. Other required statistics background is provided in scalar settings before the related functional concepts are developed. Most chapters end with references to more advanced research for those who wish to gain a more in-depth understanding of a specific topic.

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This book looks at the mathematical foundations of the models currently in use. All existing books on bioinformatics are software-orientated and they concentrate on computer implementations of mathematical models of biology. This book is unique in the sense that it looks at the mathematical foundations of the models, which are crucial for correct interpretation of the outputs of the models.

Distribution theory, a relatively recent mathematical approach to classical Fourier analysis, not only opened up new areas of research but also helped promote the development of such mathematical disciplines as ordinary and partial differential equations, operational calculus, transformation theory, and functional analysis. This text was one of the first to give a clear explanation of distribution theory; it combines the theory effectively with extensive practical applications to science and engineering problems. Based on a graduate course given at the State University of New York at Stony Brook, this book has two objectives: to provide a comparatively elementary introduction to distribution theory and to describe the generalized Fourier and Laplace transformations and their applications to integrodifferential equations, difference equations, and passive systems. After an introductory chapter

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defining distributions and the operations that apply to them, Chapter 2 considers the calculus of distributions, especially limits, differentiation, integrations, and the interchange of limiting processes. Some deeper properties of distributions, such as their local character as derivatives of continuous functions, are given in Chapter 3. Chapter 4 introduces the distributions of slow growth, which arise naturally in the generalization of the Fourier transformation. Chapters 5 and 6 cover the convolution process and its use in representing differential and difference equations. The distributional Fourier and Laplace transformations are developed in Chapters 7 and 8, and the latter transformation is applied in Chapter 9 to obtain an operational calculus for the solution of differential and difference equations of the initial-condition type. Some of the previous theory is applied in Chapter 10 to a discussion of the fundamental properties of certain physical systems, while Chapter 11 ends the book with a consideration of periodic distributions. Suitable for a graduate course for engineering and science students or for a senior-level undergraduate course for mathematics majors, this book presumes a knowledge of advanced calculus and the standard theorems on the interchange of limit processes. A broad spectrum of problems has been included to satisfy the diverse needs of various types of students.

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MASS MEDIA RESEARCH: AN INTRODUCTION, 9e, begins with an overview of mass communication research and the ethics of research. It then explores each major approach to research, including qualitative research, content analysis, survey research, longitudinal research, and experimental research. The text continues with a section on data analysis and concludes with a forward-looking section on applying research methods to the primary areas of interest including print, electronic media, advertising, and public relations. Coverage of mass media research and the Internet, which was presented in a concluding chapter in the previous edition, has now been integrated as appropriate throughout the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Provides avenues for applying functional analysis to the practical study of natural sciences as well as mathematics. Contains worked problems on Hilbert space theory and on Banach spaces and emphasizes concepts, principles, methods and major applications of functional analysis.

The main objective of this work is the practical development of the discontinuous Galerkin method, arguably the most mature high-order discretisation, for the scale

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resolving simulations of turbomachinery flows.

Topics in English Linguistics Bernd Kortmann, University of Freiburg Elizabeth Closs Traugott, Stanford University The future of English linguistics as envisaged by the editors of Topics in English Linguistics lies in empirical studies which integrate work in English linguistics into general and theoretical linguistics on the one hand, and comparative linguistics on the other. The TiEL series features volumes that present interesting new data and analyses, and above all fresh approaches that contribute to the overall aim of the series, which is to further outstanding research in English linguistics. English Adjectives Of Comparison Tine Breban, K.U. Leuven The book is concerned with a largely unrecognized grammaticalization process: deictification, or the development from quality-attributing to deictically used adjectives in the English noun phrase. On the basis of the synchronic and diachronic corpus-study of six English adjectives of comparison, deictification is shown to involve unstudied variants of subjectification and decategorialization.

This volume develops a new multimodal semiotic approach to the study of communication, examining how multimodal discourse is construed transmedially and interculturally and how new technologies and



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cultural stances inform communicative contexts across the world. It contributes to current theoretical debates in the disciplines of semiotics, linguistics, multimodality, and pragmatics, as well as those aspects of pedagogy and film studies that engage with the notions of text and narrative by addressing questions such as: How do we study multimedia communication? How do we incorporate the impact of new media technologies into the study of Linguistics and Semiotics? How do we construe culture in modern communication? How useful are the current multidisciplinary approaches to multimodal communication? Through the analysis of specific case studies that are developed within diverse academic disciplines and which draw on a range of theoretical frameworks, the goal of this book is to provide a basis for an overarching framework that can be applied by scholars and students with different academic and cultural backgrounds.

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