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Hidden in the bookshelves: Una Dillon and the 'formidable' women booksellers of London, 1930s-1960s.

Sean Carroll, \"Something Deeply Hidden: Quantum Worlds and the Emergence of Spacetime\"

Fantastic Books and Where to Find Them

UCCSS (University of California Computational Social Science): Hilbert Intro1 Background

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The Banach-Tarski Paradox

In the fifth of his famous list of 23 problems, Hilbert asked if every topological group which was locally Euclidean was in fact a Lie group. Through the work of Gleason, Montgomery-Zippin, Yamabe, and others, this question was solved affirmatively; more generally, a satisfactory description of the (mesoscopic) structure of locally compact groups was established. Subsequently, this structure theory was used to prove Gromov's theorem on groups of polynomial growth, and more recently in the work of Hrushovski, Breuillard, Green, and the author on the structure of approximate groups. In this graduate text, all of this material is presented in a unified manner, starting with the analytic structural theory of real Lie groups and Lie algebras (emphasising the role of one-parameter groups and the Baker-Campbell-Hausdorff formula), then presenting a proof of the Gleason-Yamabe structure theorem for locally compact groups (emphasising the role of Gleason metrics), from which the solution to Hilbert's fifth problem follows as a corollary. After reviewing some model-theoretic preliminaries (most notably the theory of ultraproducts), the combinatorial applications of the Gleason-Yamabe theorem to approximate groups and groups of polynomial growth are then given. A large number of relevant exercises and other supplementary material are also provided.

This volume of the Proceedings of the congress ISAAC '97 collects the contributions of the four sections 1. Function theoretic and functional analytic methods for pde, 2. Applications of function theory of several complex variables to pde, 3. Integral equations and boundary value problems, 4. Partial differential equations. Most but not all of the authors have participated in the congress. Unfortunately some from Eastern Europe and Asia have not managed to come because of lack of financial support. Nevertheless their manuscripts of the proposed talks are included in this volume. The majority of the papers deal with complex methods. Among them boundary value problems in particular the Riemann-Hilbert, the Riemann (Hilbert) and related problems are treated. Boundary behaviour of vector-valued functions are studied too. The Riemann-Hilbert problem is solved for elliptic complex equations, for mixed complex equations, and for several complex variables. It is considered in a general topological setting for mappings into \mathbb{C}^n and related to Toeplitz operators. Convolution operators are investigated for nilpotent Lie groups leading to some consequences for the null space of the tangential Cauchy Riemann operator. Some boundary value problems for overdetermined systems in balls of \mathbb{C}^n are solved explicitly. A survey is given for the Gauss-Manin connection associated with deformations of curve singularities. Several papers deal with generalizations of analytic functions with various applications to mathematical physics. Singular integrals in quaternionic anal ysis are studied which are applied to the time-harmonic Maxwell equations.

Time-frequency analysis is a modern branch of harmonic analysis. It comprises all those parts of mathematics and its applications that use the structure of translations and modulations (or time-frequency shifts) for the analysis of functions and operators. Time-frequency analysis is a form of local Fourier analysis that treats time and frequency simultaneously and symmetrically. My goal is a systematic exposition of the foundations of time-frequency analysis, whence the title of the book. The topics range from the elementary theory of the short-time Fourier transform and classical results about the Wigner distribution via the recent theory of Gabor frames to quantitative methods in time-frequency analysis and the theory of pseudodifferential operators. This book is motivated by applications in signal analysis and quantum mechanics, but it is not about these applications. The main orientation is toward the detailed mathematical investigation of the rich and elegant structures underlying time-frequency analysis. Time-frequency analysis originates in the early development of quantum mechanics by H. Weyl, E. Wigner, and J. von Neumann around 1930, and in the theoretical foundation of information theory and signal analysis by D.

This book is an introduction to one of the important aspects of Numerical Analysis, namely the approximate solution of functional equations. We intend to show, by a few brief examples, the different theoretical and practical problems related to the numerical approximation of boundary value problems. We have chosen for this the approximate solution of certain linear elliptic partial differential equations (the first two parts of the book) and the approximate solution of a nonlinear elliptic differential equation. This book is not a systematic study of the subject, but the methods developed here can be applied to large classes of linear and nonlinear elliptic problems. The book assumes that the reader's knowledge of Analysis is comparable to what is taught in the first years of graduate studies. This means a good knowledge of Hilbert spaces, elements of measure theory and theory of distributions. The subject matter of the book covers the usual content of a first course on Numerical Analysis of partial differential equations.

This book is written for scientists and engineers who use HHT (Hilbert-Huang Transform) to analyze data from nonlinear and non-stationary processes. It can be treated as a HHT user manual and a source of reference for HHT applications. The book contains the basic principle and method of HHT and various application examples, ranging from the correction of satellite orbit drifting to detection of failure of highway bridges. The thirteen chapters of the first edition are based on the presentations made at a mini-symposium at the Society for Industrial and Applied Mathematics in 2003. Some outstanding mathematical research problems regarding HHT development are discussed in the first three chapters. The three new chapters of the second edition reflect the latest HHT development, including ensemble empirical mode decomposition (EEMD) and modified EMD. The book also provides a platform for researchers to develop the HHT method further and to identify more applications. Contents: Introduction to the Hilbert-Huang Transform and Its Related Mathematical Problems Ensemble Empirical Mode Decomposition and Its Multi-Dimensional Extensions Multivariate Extensions of Empirical Mode Decomposition B-Spline Based Empirical Mode Decomposition EMD Equivalent Filter Banks, From Interpretation to Applications HHT Sifting and Filtering Statistical Significance Test of Intrinsic Mode Functions The Time-Dependent Intrinsic Correlation The Application of Hilbert-Huang Transforms to Meteorological Datasets Empirical Mode Decomposition and Climate Variability EMD Correction of Orbital Drift Artifacts in Satellite Data Stream HHT Analysis of the Nonlinear and Non-Stationary Annual Cycle of Daily Surface Air Temperature Data Hilbert Spectra of Nonlinear Ocean Waves EMD and Instantaneous Phase Detection of Structural Damage HHT-Based Bridge Structural Health-Monitoring Method Applications of HHT in Image Analysis Readership: Applied mathematicians, climate scientists, highway engineers, medical scientists, geologists, civil engineers, mechanical engineers, electrical engineers, economics and graduate students in science or engineering. Keywords: Hilbert-Huang Transform; Empirical Mode Decomposition; Intrinsic Mode Function; Hilbert Spectral Analysis; Time-Frequency Analysis Key Features: A tool book for analyzing nonlinear and non-stationary data A source book for HHT development and applications The most complete reference for HHT method and applications

The first part of a self-contained, elementary textbook, combining linear functional analysis, nonlinear functional analysis, numerical functional analysis, and their substantial applications with each other. As such, the book addresses undergraduate students and beginning graduate students of mathematics, physics, and engineering who want to learn how functional analysis elegantly solves mathematical problems which relate to our real world. Applications concern ordinary and partial differential equations, the method of finite elements, integral equations, special functions, both the Schroedinger approach and the Feynman approach to quantum physics, and quantum statistics. As a prerequisite, readers should be familiar with some basic facts of calculus. The second part has been published under the title, Applied Functional Analysis: Main Principles and Their Applications.

An introductory engineering textbook by an award-winning MIT professor that covers the history of dynamics and the dynamical analyses of mechanical, electrical, and electromechanical systems. This introductory textbook offers a distinctive blend of the modern and the historical, seeking to encourage an appreciation for the history of dynamics while also presenting a framework for future learning. The text presents engineering mechanics as a unified field, emphasizing dynamics but integrating topics from other disciplines, including design and the humanities. The book begins with a history of mechanics, suitable for an undergraduate overview. Subsequent chapters cover such topics as three-dimensional kinematics; the direct approach, also known as vectorial mechanics or the momentum approach; the indirect approach, also called lagrangian dynamics or variational dynamics; an expansion of the momentum and lagrangian formulations to extended bodies; lumped-parameter electrical and electromagnetic devices; and equations of motion for one-dimensional continuum models. The book is noteworthy in covering both lagrangian dynamics and vibration analysis. The principles covered are relatively few and easy to articulate; the examples are rich and broad. Summary tables, often in the form of flowcharts, appear throughout. End-of-chapter problems begin at an elementary level and become increasingly difficult. Appendixes provide theoretical and mathematical support for the main text.

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Hilbert's Fifth Problem and Related Topics Partial Differential and Integral Equations Foundations of Time-Frequency Analysis Numerical Analysis Reviews in Operator Theory, 1980-86 Hilbert-Huang Transform and Its Applications Applied Functional Analysis Fundamentals of Applied Dynamics Mathematical Reviews Applied Mechanics Reviews Mathematics for Machine Learning Research in Progress Real and Functional Analysis A Collection of Technical Papers Software Tools and Algorithms for Biological Systems Harmonic Analysis on Semigroups On Formally Undecidable Propositions of Principia Mathematica and Related Systems American Scientist Grants and Awards for the Fiscal Year Ended ... Bulletin of the Russian Academy of Sciences
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