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KEY=ENGINEERING - BERRY HAAS

INTRODUCTION TO REAL ANALYSIS

Prentice Hall Using an extremely clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents 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 functions. Metric Spaces. For those who want to gain an understanding of mathematical analysis and challenging mathematical concepts.

MATHEMATICAL RECREATIONS AND ESSAYS

Createspace Independent Publishing Platform Mathematical Recreations and Essays W. W. Rouse Ball For nearly a century, this sparkling classic has provided stimulating hours of entertainment to the mathematically inclined. The problems posed here often involve fundamental mathematical methods and notions, but their chief appeal is their capacity to tease and delight. In these pages you will find scores of "recreations" to amuse you and to challenge your problem-solving faculties-often to the limit. Now in its 13th edition, Mathematical Recreations and Essays has been thoroughly revised and updated over the decades since its first publication in 1892. This latest edition retains all the remarkable character of the original, but the terminology and treatment of some problems have been updated and new

material has been added. Among the challenges in store for you: Arithmetical and geometrical recreations; Polyhedra; Chess-board recreations; Magic squares; Map-coloring problems; Unicursal problems; Cryptography and cryptanalysis; Calculating prodigies; ... and more. You'll even find problems which mathematical ingenuity can solve but the computer cannot. No knowledge of calculus or analytic geometry is necessary to enjoy these games and puzzles. With basic mathematical skills and the desire to meet a challenge you can put yourself to the test and win. "A must to add to your mathematics library."-The Mathematics Teacher We are delighted to publish this classic book as part of our extensive Classic Library collection. Many of the books in our collection have been out of print for decades, and therefore have not been accessible to the general public. The aim of our publishing program is to facilitate rapid access to this vast reservoir of literature, and our view is that this is a significant literary work, which deserves to be brought back into print after many decades. The contents of the vast majority of titles in the Classic Library have been scanned from the original works. To ensure a high quality product, each title has been meticulously hand curated by our staff. Our philosophy has been guided by a desire to provide the reader with a book that is as close as possible to ownership of the original work. We hope that you will enjoy this wonderful classic work, and that for you it becomes an enriching experience.

AN INTRODUCTION TO NUMERICAL METHODS AND ANALYSIS

John Wiley & Sons Praise for the First Edition ". . . outstandingly appealing with regard to its style, contents, considerations of requirements of practice, choice of examples, and exercises." —Zentrablatt Math ". . . carefully structured with many detailed worked examples . . ." —The Mathematical Gazette ". . . an up-to-date and user-friendly account . . ." —Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are

interested in gaining an understanding of numerical methods and numerical analysis.

A TEXTBOOK OF ENGINEERING MATHEMATICS (FOR FIRST YEAR ,ANNA UNIVERSITY)

Laxmi Publications

BASIC REAL ANALYSIS

Springer Science & Business Media Systematically develop the concepts and tools that are vital to every mathematician, whether pure or applied, aspiring or established A comprehensive treatment with a global view of the subject, emphasizing the connections between real analysis and other branches of mathematics Included throughout are many examples and hundreds of problems, and a separate 55-page section gives hints or complete solutions for most.

RELATIVITY: THE SPECIAL AND GENERAL THEORY

e-artnow The present book is intended, as far as possible, to give an exact insight into the theory of Relativity to those readers who, from a general scientific and philosophical point of view, are interested in the theory, but who are not conversant with the mathematical apparatus of theoretical physics. The author has spared himself no pains in his endeavor to present the main ideas in the simplest and most intelligible form, and on the whole, in the sequence and connection in which they actually originated.

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DIFFERENTIAL AND INTEGRAL CALCULUS

John Wiley & Sons The classic introduction to the fundamentals of calculus Richard Courant's classic text Differential and Integral Calculus is an essential text for those preparing for a career in physics or applied math. Volume 1 introduces the foundational concepts of "function" and "limit", and offers detailed explanations that illustrate the

"why" as well as the "how". Comprehensive coverage of the basics of integrals and differentials includes their applications as well as clearly-defined techniques and essential theorems. Multiple appendices provide supplementary explanation and author notes, as well as solutions and hints for all in-text problems.

AERONAUTICAL ENGINEER'S DATA BOOK

Elsevier Aeronautical Engineer's Data Bookis an essential handy guide containing useful up to date information regularly needed by the student or practising engineer. Covering all aspects of aircraft, both fixed wing and rotary craft, this pocket book provides quick access to useful aeronautical engineering data and sources of information for further in-depth information. Quick reference to essential data Most up to date information available

ANALYSIS OF NUMERICAL METHODS

Courier Corporation This excellent text for advanced undergraduate and graduate students covers norms, numerical solutions of linear systems and matrix factoring, eigenvalues and eigenvectors, polynomial approximation, and more. Many examples and problems. 1966 edition.

MATRICES IN ENGINEERING PROBLEMS

Morgan & Claypool Publishers This book is intended as an undergraduate text introducing matrix methods as they relate to engineering problems. It begins with the fundamentals of mathematics of matrices and determinants. Matrix inversion is discussed, with an introduction of the well known reduction methods. Equation sets are viewed as vector transformations, and the conditions of their solvability are explored. Orthogonal matrices are introduced with examples showing application to many problems requiring three dimensional thinking. The angular velocity matrix is shown to emerge from the differentiation of the 3-D orthogonal matrix, leading to the discussion of particle and rigid body dynamics. The book continues with the eigenvalue problem and its application to multi-variable vibrations. Because the eigenvalue problem requires some operations with polynomials, a separate discussion of these is given in an appendix. The example of the vibrating string is given with a comparison of the matrix analysis to the continuous solution. Table of Contents: Matrix Fundamentals / Determinants / Matrix Inversion / Linear Simultaneous Equation Sets / Orthogonal Transforms / Matrix Eigenvalue Analysis / Matrix Analysis of Vibrating Systems

TRINITY COLLEGE, CAMBRIDGE

Cambridge University Press A history of Trinity College, Cambridge, from its foundation by Henry VIII in 1546 to the Victorian era.

BENFORD'S LAW

Princeton University Press Benford's law states that the leading digits of many data sets are not uniformly distributed from one through nine, but rather exhibit a profound bias. This bias is evident in everything from electricity bills and street addresses to stock prices, population numbers, mortality rates, and the lengths of rivers. Here, Steven Miller brings together many of the world's leading experts on Benford's law to demonstrate the many useful techniques that arise from the law, show how truly multidisciplinary it is, and encourage collaboration. Beginning with the general theory, the contributors explain the prevalence of the bias, highlighting explanations for when systems should and should not follow Benford's law and how quickly such behavior sets in. They go on to discuss important applications in disciplines ranging from accounting and economics to psychology and the natural sciences. The contributors describe how Benford's law has been successfully used to expose fraud in elections, medical tests, tax filings, and financial reports. Additionally, numerous problems, background materials, and technical details are available online to help instructors create courses around the book. Emphasizing common challenges and techniques across the disciplines, this accessible book shows how Benford's law can serve as a productive meeting ground for researchers and practitioners in diverse fields.

COMPUTER BASED NUMERICAL & STATISTICAL TECHNIQUES

Firewall Media

TEXTBOOK OF FINITE ELEMENT ANALYSIS

PHI Learning Pvt. Ltd. Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that

view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.

ISABELLE

LAPA Uitgewers Hul persoonlikhede knoop en skuur behoorlik - sy, die opsters gravinnetjie, en hy, die boertige bywoner. Maar meer as 'n herinnering kan Isabelle nie word nie, want Arendt de Leeuw het net 'n paar maande oor.

LINEAR ALGEBRA DONE RIGHT

Springer Science & Business Media This text for a second course in linear algebra, aimed at math majors and graduates, adopts a novel approach by banishing determinants to the end of the book and focusing on understanding the structure of linear operators on vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. For example, the book presents - without having defined determinants - a clean proof that every linear operator on a finite-dimensional complex vector space has an eigenvalue. The book starts by discussing vector spaces, linear independence, span, basics, and dimension. Students are introduced to inner-product spaces in the first half of the book and shortly thereafter to the finite- dimensional spectral theorem. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra. This second edition features new chapters on diagonal matrices, on linear functionals and adjoints, and on the spectral theorem; some sections, such as those on self-adjoint and normal operators, have been entirely rewritten; and hundreds of minor improvements have been made throughout the text.

A TEXT BOOK OF ENGINEERING MATHEMATICS

FIBONACCI'S LIBER ABACI

A TRANSLATION INTO MODERN ENGLISH OF LEONARDO PISANO'S BOOK OF CALCULATION

Springer Science & Business Media First published in 1202, Fibonacci's Liber Abaci was one of the most important books on mathematics in the Middle Ages, introducing Arabic numerals and methods throughout Europe. This is the first translation into a modern European language, of interest not only to historians of science but also to all mathematicians and mathematics teachers interested in the origins of their methods.

NOW IT CAN BE TOLD

AKASHVANI PRAKASHAN Ltd. The hundreds and thousands of unfortunate Punjabees, Sarhadees and Sindhies who putting. faith in the statements that everything will 'stand still' tarried too long behind and perished in the conflagration, unwept, unsung, unhonoured but certainly not unremembered.

BAYESIAN EVOLUTIONARY ANALYSIS WITH BEAST

Cambridge University Press Covers theory, practice and programming in Bayesian phylogenetics with BEAST. The why, how and what of BEAST 2.

THERMODYNAMICS AND STATISTICAL MECHANICS

World Scientific This book provides a comprehensive exposition of the theory of equilibrium thermodynamics and statistical mechanics at a level suitable for well-prepared undergraduate students. The fundamental message of the book is that all results in equilibrium thermodynamics and statistical mechanics follow from a single unprovable axiom — namely, the principle of equal a priori probabilities — combined with elementary probability theory, elementary classical mechanics, and elementary quantum mechanics.

ADVANCED ENGINEERING MATHEMATICS

Alpha Science International Limited This work is based on the experience and notes of the authors while teaching mathematics courses to engineering students at the Indian Institute of Technology, New Delhi. It covers syllabi of two core courses in mathematics for engineering students.

SIMULATION FOR THE SOCIAL SCIENTIST

McGraw-Hill Education (UK) Social sciences -- Simulation methods. Social interaction -- Computer simulation. Social sciences -- Mathematical models. (publisher)

MAHAJAN'S METHODS IN BIOSTATISTICS FOR MEDICAL STUDENTS AND RESEARCH WORKERS

Jaypee Brothers,Medical Publishers Pvt. Limited

ISSUES AND TRENDS IN EDUCATION FOR SUSTAINABLE DEVELOPMENT

UNESCO Publishing

MOTIVATION AND PERSONALITY

Prabhat Prakashan I have tried in this revision to incorporate the main lessons of the last sixteen years. These lessons have been considerable. I consider it a real and extensive revision-even though I had to do only a moderate amount of rewriting-because the main thrust of the book has been modified in important ways which I shall detail below.

NATURE-INSPIRED ALGORITHMS AND APPLIED OPTIMIZATION

Springer This book reviews the state-of-the-art developments in nature-inspired algorithms and their applications in various disciplines, ranging from feature selection and engineering design optimization to scheduling and vehicle routing. It introduces each algorithm and its implementation with case studies as well as extensive literature reviews, and also includes self-contained chapters featuring theoretical analyses, such as convergence analysis and no-free-lunch theorems so as to provide insights into the current nature-inspired optimization algorithms. Topics include ant colony optimization, the bat algorithm, B-spline curve fitting, cuckoo search, feature selection, economic load dispatch, the firefly algorithm, the flower pollination algorithm, knapsack problem, octonian and quaternion representations, particle swarm optimization, scheduling, wireless networks, vehicle routing with time windows, and maximally different alternatives. This timely book serves as a practical guide and reference resource for students, researchers and professionals.

CAN BLOCKCHAIN REVOLUTIONIZE INTERNATIONAL TRADE?

Trade has always been shaped by technological innovation. In recent times, a new technology, Blockchain, has been greeted by many as the next big game-changer. Can Blockchain revolutionize international trade? This publication seeks to demystify the Blockchain phenomenon by providing a basic explanation of the technology. It analyses the relevance of this technology for international trade by reviewing how it is currently used or can be used in the various areas covered by WTO rules. In doing so, it provides an insight into the extent to which this technology could affect cross-border trade in goods and services, and intellectual property rights. It discusses the potential of Blockchain for reducing trade costs and enhancing supply chain transparency as well as the opportunities it provides for small-scale producers and companies. Finally, it reviews various challenges that must be addressed before the technology can be used on a wide scale and have a significant impact on international trade.

AQUAPONICS FOOD PRODUCTION SYSTEMS

COMBINED AQUACULTURE AND HYDROPONIC PRODUCTION TECHNOLOGIES FOR THE FUTURE

Springer This open access book, written by world experts in aquaponics and related technologies, provides the authoritative and comprehensive overview of the key aquaculture and hydroponic and other integrated systems, socio-economic and environmental aspects. Aquaponic systems, which combine aquaculture and vegetable food production offer alternative technology solutions for a world that is increasingly under stress through population growth, urbanisation, water shortages, land and soil degradation, environmental pollution, world hunger and climate change.

FOUNDATIONS OF TRUSTED AUTONOMY

Springer This book establishes the foundations needed to realize the ultimate goals for artificial intelligence, such as autonomy and trustworthiness. Aimed at scientists, researchers, technologists, practitioners, and students, it brings together contributions offering the basics, the challenges and the state-of-the-art on trusted autonomous systems in a single volume. The book is structured in three parts, with chapters written by eminent researchers and outstanding practitioners and users in the field. The first part covers foundational artificial intelligence technologies, while the second part covers philosophical, practical and technological perspectives on trust. Lastly, the third part presents advanced topics necessary to create future trusted autonomous systems. The book augments theory with real-world

applications including cyber security, defence and space.

FUTURE NARRATIVES

THEORY, POETICS, AND MEDIA-HISTORICAL MOMENT

Walter de Gruyter This head volume of the 'Narrating Futures' series defines and identifies Future Narratives. It parses their characteristic features and aims at an abstract classification of the whole corpus, irrespective of its concrete manifestations across the media. Drawing on different theorems and approaches, it offers a unified theory and a poetics of Future Narratives. Locating the media-historical moment of their emergence, this volume paves the way for the following volumes, which deal with how Future Narratives are refracted through different media.

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING, INFORMATION AND CONTROL SYSTEMS

ICICCS 2020

Springer Nature This book is a collection of papers presented at the International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2020). It encompasses various research works that help to develop and advance the next-generation intelligent computing and control systems. The book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications. The book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural networks and various neuro-hybrid methodologies. This book is pragmatic for researchers, academicians and students dealing with mathematically intransigent problems.

BLACK SKIN, WHITE MASKS

Black Skin, White Masks is a classic, devastating account of the dehumanising effects of colonisation experienced by black subjects living in a white world. First published in English in 1967, this book provides an unsurpassed study of the psychology of racism using scientific analysis and poetic grace.Franz Fanon identifies a devastating pathology at

the heart of Western culture, a denial of difference, that persists to this day. A major influence on civil rights, anti-colonial, and black consciousness movements around the world, his writings speak to all who continue the struggle for political and cultural liberation.With an introduuction by Paul Gilroy, author of There Ain't No Black in the Union Jack.

THE PSYCHOLOGY OF FAKE NEWS

ACCEPTING, SHARING, AND CORRECTING MISINFORMATION

Routledge This volume examines the phenomenon of fake news by bringing together leading experts from different fields within psychology and related areas, and explores what has become a prominent feature of public discourse since the first Brexit referendum and the 2016 US election campaign. Dealing with misinformation is important in many areas of daily life, including politics, the marketplace, health communication, journalism, education, and science. In a general climate where facts and misinformation blur, and are intentionally blurred, this book asks what determines whether people accept and share (mis)information, and what can be done to counter misinformation? All three of these aspects need to be understood in the context of online social networks, which have fundamentally changed the way information is produced, consumed, and transmitted. The contributions within this volume summarize the most up-to-date empirical findings, theories, and applications and discuss cutting-edge ideas and future directions of interventions to counter fake news. Also providing guidance on how to handle misinformation in an age of "alternative facts", this is a fascinating and vital reading for students and academics in psychology, communication, and political science and for professionals including policy makers and journalists.

AN INTRODUCTION TO KAC-MOODY GROUPS OVER FIELDS

"The book starts with an outline of the classical Lie theory, used to set the scene. Part II provides a self-contained introduction to Kac-Moody algebras. The heart of the book is Part III, which develops an intuitive approach to the construction and fundamental properties of Kac-Moody groups. It is complemented by two appendices, respectively offering introductions to affine group schemes and to the theory of buildings. "- publisher

PERSIAN BASIC COURSE UNITS 1-12

OPEN SOURCE TECHNOLOGY

Laxmi Publications, Ltd.

QUANTITATIVE TECHNIQUES, 3RD EDITION

Vikas Publishing House This is a reformatted version of Prof C R Kothari's all-time great book Quantitative Techniques (Third Revised Edition). Students and teachers will find the readability in the new version much enhanced and thus comprehension greatly improved. All the diagrams have been freshly drawnfor clarity.The book does not need much introduction as it has been known for years for its simplicity of approach which explains the tedious concepts of quantitative techniques in a most readerfriendly manner through practical examples. The style is so lucid that even a reader having no formal training of mathematics and statistics will not find it difficult to understand and to apply these techniques.The book is meant for MCom, CA, ICWA and degree diploma students of business administration.

HANDBOOK OF ENGINEERING MATHEMATICS