

## Mathematics For Engineers By Chandrika Prasad

Studies in Corpus-Based Sociolinguistics illustrates how sociolinguistic approaches and linguistic distributions from corpora can be effectively combined to produce meaningful studies of language use and language variation. Three major parts comprise the volume focusing on: (1) Corpora and the Study of Languages and Dialects, in particular, varieties of global Englishes; (2) Corpora and Social Demographics; and (3) Corpora and Register Characteristics. The 14 peer-reviewed, new, and original chapters explore language variation related to regional dialectology, gender, sexuality, age, race, 'nation,' workplace discourse, diachronic change, and social media and web registers. Invited contributors made use of systematically-designed general and specialized corpora, sound research questions, methodologies (e.g., keyword analysis, multi-dimensional analysis, clusters, and collocations), and logical/credible interpretive techniques. Studies in Corpus-Based Sociolinguistics is an important resource for researchers and graduate students in the fields of sociolinguistics, corpus linguistics, and applied linguistics.

Scientists and engineers use computer simulations to study relationships between a model's input parameters and its outputs. However, thorough parameter studies are challenging, if not impossible, when the simulation is expensive and the model has several inputs. To enable studies in these instances, the engineer may attempt to reduce the dimension of the model's input parameter space. Active subspaces are an emerging set of dimension reduction tools that identify important directions in the parameter space. This book describes techniques for discovering a model's active subspace and proposes methods for exploiting the reduced dimension to enable otherwise infeasible parameter studies. Readers will find new ideas for dimension reduction, easy-to-implement algorithms, and several examples of active subspaces in action.

This book is designed to meet the complete requirements of Engineering Mathematics course of undergraduate syllabus, The book consists of seven chapters viz. infinite Series, Matrices, Expansion of Functions, Asymptotes, Curvature, Partial Differentiation , Multiple Integrals, Each chapter is treated in treated in systematic,logical and lucid manner, All these chapters are independent units in themselves. The students can go through the book picking up any chapter at any given times, without referring to other chapters, Hints, where ever necessary and answers of the questions in the exercises are given at the end of each exercise, Most of the questions-solved as well as unsolved-have been picked up from the examination papers of different universities and professional examinations, There are fully worked out examples and graded exercises (with answers) aimed at preparing the student for examination as well as higher studies, The authors have illustrated various methods to solve particular problems.

In this book, senior scholars and a new generation of analysts present different applications of recent advances linking beliefs and decision-making, in the area of foreign policy analysis with strategic interactions in world politics. Divided into five parts, Part 1 identifies how the beliefs in the cognitive operational codes of individual leaders explain the political decisions of states. In Part 2, five chapters illustrate progress in comparing the operational codes of individual leaders, including Vladimir Putin of

Russia, three US presidents, Bolivian president Evo Morales, Sri Lanka's President Chandrika Kumaratunga, and various leaders of terrorist organizations operating in the Middle East and North Africa. Part 3 introduces a new Psychological Characteristics of Leaders (PsyCL) data set containing the operational codes of US presidents from the early 1800s to the present. In Part 4, the focus is on strategic interactions among dyads and evolutionary patterns among states in different regional and world systems. Part 5 revisits whether the contents of the preceding chapters support the claims about the links between beliefs and foreign policy roles in world politics. Richly illustrated and with comprehensive analysis Operational Code Analysis and Foreign Policy Roles will be of interest to specialists in foreign policy analysis, international relations theorists, graduate students, and national security analysts in the policy-making and intelligence communities.

"Advanced Engineering Mathematics" is written for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

Based on the experience and the lecture notes of the authors while teaching Mathematics courses for more than four decades. This comprehensive textbook covers the material for one semester core course in mathematics for Engineering students. The emphasis is on the presentation of fundamentals and theoretical concepts in an intelligible and easy to understand manner. Graded sets of examples (in text) and problems (in exercises) are used to explain each theoretical concept and application of these concepts in problem solving. Answers for every problem and hints for difficult problems are provided. This text offers a logical and lucid presentation of both theory and techniques for problem solving to motivate the students in the study and application of mathematics to solve Engineering problems.

In Engineering Graphics with AutoCAD 2020, award-winning CAD instructor and author James Bethune teaches technical drawing using AutoCAD 2020 as its drawing instrument. Taking a step-by-step approach, this textbook encourages students to work at their own pace and uses sample problems and illustrations to guide them through the powerful features of this drawing program. More than 680 exercise problems provide instructors with a variety of assignment material and students with an opportunity to develop their creativity and problem-solving capabilities. Effective pedagogy throughout the text helps students learn and retain concepts: Step-by-step format throughout the text allows students to work directly from the text to the screen and provides an excellent reference during and after the course. Latest coverage is provided for dynamic blocks, user interface improvements, and productivity enhancements. Exercises, sample problems, and projects appear in each chapter, providing examples of software capabilities and giving students an opportunity to apply their own knowledge to realistic design situations. ANSI standards are discussed when appropriate, introducing students to the appropriate techniques and national standards. Illustrations and sample problems are provided in every chapter, supporting the step-by-step approach by illustrating how to use AutoCAD 2020 and its features to solve various design problems. Engineering Graphics with AutoCAD 2020 will be a valuable resource for every student wanting to learn to create engineering drawings.

Chandrika Kamath describes how techniques from the multi-disciplinary field of data mining can be used to address the modern problem of data overload in science and engineering domains. Starting with a survey of analysis problems in different applications, it identifies the

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common themes across these domains.

Higher Engineering Mathematics  
Mathematical Foundation of Computer Science  
Laxmi Publications  
Vidya  
Indian Books in Print  
Advanced Engineering Mathematics  
PHI Learning Pvt. Ltd.

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Provides a comprehensive coverage of the subject, Emphasis is laid to ensure the conceptual understanding of numerical methods, Formulae for different numerical methods have been derived in the simplest manner, algorithms for these methods are developed using pseudo language, Large number of programming exercises to test your for reference, large number of multiple choice questions and review exercises to test your programming skills acquired, Majority of the algorithms are implemented in C,C++ and FORTRAN languages.

The Committee for the Review of NASA's Pioneering Revolutionary Technology (PRT) Program and its three supporting panels were charged by the National Aeronautics and Space Administration (NASA) with assessing the overall scientific and technical quality of the PRT program and its component programs, along with their associated elements and individual research tasks. Major issues addressed in the review include (1) research portfolios, (2) research plans, (3) technical community connections, (4) methodologies, and (5) overall capabilities. As reflected in the organization of the report, a two-pronged assessment was developed. Each panel provided a detailed assessment of the program under its purview, which was refined and updated over the course of the review. The committee, composed mainly of representatives from each panel, integrated and evaluated the panel results and provided top-level advice on issues cutting across the entire PRT program.

Unlike Many Engineering Mathematics Books, The New Edition Of This Comprehensive Applications-Oriented Book Uses Computer Programs In Almost Every Chapter To Demonstrate The Mathematical Concepts Under Discussion. Designed For Engineering Students As Well As Practicing Engineers And Scientists, The Book Has Hundreds Of Examples With In-Text Solutions. In Terms Of Content, It Covers The Entire Sequence Of Mathematical Topics Needed By The Majority Of University Programs, Including ODE, PDE, Complex Variables, Probability/Statistics, And Numerical Methods. The Authors Demonstrate How The Mathematical Concepts Will Be Used In Practical Applications Such As Fractals, Robotics, Circuits, Membrane Simulation, Collision Detection, Ray Tracing, Signal Processing, And More. A CD-ROM With The Source Code For The In-Text Computer Programs (Written In C) Includes Calculation Routines And Simulations.

Cybersecurity and Privacy in Cyber-Physical Systems collects and reports on recent high-quality research that addresses different problems related to cybersecurity and

privacy in cyber-physical systems (CPSs). It Presents high-quality contributions addressing related theoretical and practical aspects Improves the reader's awareness of cybersecurity and privacy in CPSs Analyzes and presents the state of the art of CPSs, cybersecurity, and related technologies and methodologies Highlights and discusses recent developments and emerging trends in cybersecurity and privacy in CPSs Proposes new models, practical solutions, and technological advances related to cybersecurity and privacy in CPSs Discusses new cybersecurity and privacy models, prototypes, and protocols for CPSs This comprehensive book promotes high-quality research by bringing together researchers and experts in CPS security and privacy from around the world to share their knowledge of the different aspects of CPS security. Cybersecurity and Privacy in Cyber-Physical Systems is ideally suited for policymakers, industrial engineers, researchers, academics, and professionals seeking a thorough understanding of the principles of cybersecurity and privacy in CPSs. They will learn about promising solutions to these research problems and identify unresolved and challenging problems for their own research. Readers will also have an overview of CPS cybersecurity and privacy design. P> Discusses new cybersecurity and privacy models, prototypes, and protocols for CPSs This comprehensive book promotes high-quality research by bringing together researchers and experts in CPS security and privacy from around the world to share their knowledge of the different aspects of CPS security. Cybersecurity and Privacy in Cyber-Physical Systems is ideally suited for policymakers, industrial engineers, researchers, academics, and professionals seeking a thorough understanding of the principles of cybersecurity and privacy in CPSs. They will learn about promising solutions to these research problems and identify unresolved and challenging problems for their own research. Readers will also have an overview of CPS cybersecurity and privacy design.

This book aims to be the first comprehensive exposition of "mindful journalism"—drawn from core Buddhist ethical principles—as a fresh approach to journalism ethics. It suggests that Buddhist mindfulness strategies can be applied purposively in journalism to add clarity, fairness and equity to news decision-making and to offer a moral compass to journalists facing ethical dilemmas in their work. It comes at a time when ethical values in the news media are in crisis from a range of technological, commercial and social factors, and when both Buddhism and mindfulness have gained considerable acceptance in Western societies. Further, it aims to set out foundational principles to assist journalists dealing with vulnerable sources and recovering from traumatic assignments.

Extending the work of The Routledge Handbook to Nineteenth-Century British Periodicals and Newspapers, this volume provides a critical introduction and case studies that illustrate cutting-edge approaches to periodicals research, as well as an overview of recent developments in the field. The twelve chapters model diverse approaches and methodologies for research on nineteenth-century periodicals. Each case study is contextualized within one of the following broad areas of research: single periodicals, individual journalists, gender issues, periodical networks, genre, the relationship between periodicals, transnational/transatlantic connections, technologies of printing and illustration, links within a single periodical, topical subjects, science and periodicals, and imperialism and periodicals. Contributors incorporate first-person accounts of how they conducted their research and provide specific examples of how

they gained access to primary sources, as well as the methods they used to analyze the materials.

This is the most authoritative and accessible single-volume reference book on applied mathematics. Featuring numerous entries by leading experts and organized thematically, it introduces readers to applied mathematics and its uses; explains key concepts; describes important equations, laws, and functions; looks at exciting areas of research; covers modeling and simulation; explores areas of application; and more. Modeled on the popular Princeton Companion to Mathematics, this volume is an indispensable resource for undergraduate and graduate students, researchers, and practitioners in other disciplines seeking a user-friendly reference book on applied mathematics. Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts, methods, equations, and applications Introduces the language of applied mathematics and the goals of applied mathematical research Gives a wide range of examples of mathematical modeling Covers continuum mechanics, dynamical systems, numerical analysis, discrete and combinatorial mathematics, mathematical physics, and much more Explores the connections between applied mathematics and other disciplines Includes suggestions for further reading, cross-references, and a comprehensive index

Formal concept analysis has been developed as a field of applied mathematics based on the mathematization of concept and concept hierarchy. It thereby allows us to mathematically represent, analyze, and construct conceptual structures. The formal concept analysis approach has been proven successful in a wide range of application fields. This book constitutes a comprehensive and systematic presentation of the state of the art of formal concept analysis and its applications. The first part of the book is devoted to foundational and methodological topics. The contributions in the second part demonstrate how formal concept analysis is successfully used outside of mathematics, in linguistics, text retrieval, association rule mining, data analysis, and economics. The third part presents applications in software engineering.

Improving agricultural water use efficiency (WUE) is vitally important in many parts of the world due to the decreasing availability of water resources and the increasing competition for water between different users. Micro irrigation is an effective tool for conserving water resources. Studies have revealed a significant water savings, ranging from 40% to 70% under drip irrigation compared with surface irrigation. This new volume, *Engineering Interventions in Sustainable Trickle Irrigation: Irrigation Requirements and Uniformity, Fertigation, and Crop Performance*, presents valuable research that evaluates crop water and fertigation requirements, examines optimum irrigation and fertigation scheduling, and analyzes the performance of agricultural crops under micro irrigation. With an interdisciplinary perspective, this volume addresses the urgent need to explore and investigate the current shortcomings and challenges of water resources engineering, especially in micro irrigation engineering. The volume discusses crop water requirements, fertigation technology, and performance of agricultural crops under best management practices. The chapter authors present research studies on drip irrigated tomato, chilies, cucumber, eggplant, cabbage, garlic, sugarcane maize, cashew nut, sapota, banana, mango, and blueberries. Removing the

research gap, this volume provides new information that will be valuable to those involved in micro irrigation engineering.

Conference papers presented on the 150th year celebration of University of Roorkee and organised by the Dept. of Mathematics, Dec. 16-18, 1996.

This is a sequel to the author's earlier books -- Engineering Mathematics: Vols. I and II -- both well received by the students and the academics. As this book deals with advanced topics in engineering mathematics, which undergraduate students in engineering and postgraduate students in mathematics and allied disciplines have to study as part of their course requirements, the title of Advanced Engineering Mathematics has been considered more suitable. This well-organised and accessible text discusses in detail the advanced mathematical tools and techniques required for engineering problems. The book begins with Fourier series and goes on to give an indepth analysis of Fourier transform, Mellin transforms and Z-transforms. It then examines the partial differential equations with an emphasis on the method of separation of variables applied to the solution of initial boundary value problems involving the heat, wave and Laplace equations. Discrete mathematics and its applications are covered in a separate chapter as the subject has wide applications in computer science. In addition, the book presents some of the classical problems of the calculus of variations, including the brachistochrone problem. The text concludes with a discussion on tensor analysis which has important applications in the study of continuum mechanics, theory of relativity, and elasticity. Intended primarily as a text for undergraduate students of engineering, postgraduate students of mathematics (M.Sc.), and master of computer applications (MCA), the book would be of great benefit also to practising engineers. Key Features The topics given are application-oriented, and are selected keeping in view their use in various engineering disciplines.

Exercises are provided at the end of each section to test the student's comprehension. A large number of illustrative examples are given to help students understand the concepts better.

'I would highly recommend the skills, expertise and delivery that Cath can bring to a school and can guarantee that any school following her advice will not regret it.' Carl McIver, Head of School, St. Willibrord's R.C. Primary, Manchester 'I have worked with Cath Hunter now in two schools and find that the work she does with children, parents and staff is amazing.' Sam Foord, Headteacher, Ravensbury Community School, Manchester Understanding and Managing Children's Behaviour provides the reader with an insight into children's emotional wellbeing and helps them to understand what and how children communicate and how to respond in a way that provides positive messages, increases their emotional vocabulary and encourages them to change their behaviour. It provides an alternative and effective child centred way of managing children's behaviour through introducing the concept of reflective language and other tools, equipping staff with new skills that are transferable across the school in any role. The book is divided into two sections, enabling the reader to link theory with practice. The first section takes the reader on a journey to help them understand the different factors that influence children's behaviour. The second section of the book focuses on the group work programmes, how they can be used, their value and the impact they can have on children and the school as a whole. The activities in the group work programme explore the concept of using reflective language as a behaviour management tool and are designed to motivate, build confidence, self-esteem and resilience. Useful pedagogical features throughout the book include:- Practitioner and classroom management tips and reflective tasks; Strategies and practical ideas for staff to use to help them engage more deeply with the contents of the book; Flexible, tried and tested group work programmes designed to promote inclusion rather than exclusion; Clear step by step instructions for delivering the work programmes; Case studies showing behaviour examples with detailed explanations for the behaviour and strategies to respond to it. The book is aimed at all primary school staff, especially teaching assistants, learning mentors and family workers who can deliver the group work programmes.

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It is also recommended reading for SENCOs and trainee teachers and will also be useful for therapists who work with children and are looking at delivering other approaches in their work. Scientific knowledge grows at a phenomenal pace--but few books have had as lasting an impact or played as important a role in our modern world as *The Mathematical Theory of Communication*, published originally as a paper on communication theory more than fifty years ago. Republished in book form shortly thereafter, it has since gone through four hardcover and sixteen paperback printings. It is a revolutionary work, astounding in its foresight and contemporaneity. The University of Illinois Press is pleased and honored to issue this commemorative reprinting of a classic.

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