

Advanced Engineering Mathematics Book Atul Prakashan

Python for Everybody
Discrete Mathematics
Interventional Pulmonary Medicine,
Second Edition
A Text Book of Automobile
Engineering
DIFFERENTIAL EQUATIONS AND THEIR
APPLICATIONS
Electrical Properties of Materials
The British National Bibliography
Introduction to Computational Fluid Dynamics
Brief
An Alchemy of Mind
DATABASE MANAGEMENT SYSTEMS
Handbook of Advances in Marketing in an Era of Disruptions
Fundamentals of Mathematical Statistics
The Checklist Manifesto
Editing Humanity
Doing the Math of Mission
CRC Handbook of Thermal Engineering, Second Edition
The Pearson Guide To Inorganic Chemistry For The IIT JEE
The National Union Catalogs, 1963-
Advanced Engineering Mathematics
Thomas' Calculus
Higher Engineering Mathematics (Sem-III)
Foundations of Applied Mathematics
Where Will Man Take Us?
NanoAgroceuticals & NanoPhytoChemicals
Bioengineered Nanomaterials
The Pearson Guide to Organic Chemistry for the JEE
Advanced
Indian Books in Print
ENGINEERING ECONOMICS
International Books in Print
Schaum's Outline of Theory and Problems of Advanced Mathematics for Engineers and Scientists
Learning Functional Data Structures and Algorithms
Advanced Engineering Mathematics
Integrating Project Delivery
Complete Book of Colleges
Scientific and

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Technical Books and Serials in Print, 1989
The Power of Vedic Maths
Renewable Energy Resources
Algorithms in Structural Molecular
Biology
New Scientist

Python for Everybody

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition

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brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

Discrete Mathematics

Interventional Pulmonary Medicine, Second Edition

The Pearson Guide to Organic Chemistry for the JEE Advanced is designed to help aspiring engineers understand the various important aspects of 'organic chemistry'. Each book in this series approaches the subject in a very conceptual and coherent manner. The illustrative approach adopted in this series will help students to familiarize themselves with complex concepts and their applications in a simple manner. The book also includes a wide variety of questions.

A Text Book of Automobile Engineering

Many varieties of new, complex diseases are constantly being discovered, which leaves scientists with little choice but to embrace innovative methods for controlling the invasion of life-threatening problems. The use of nanotechnology has given scientists an opportunity to create nanomaterials that could help medical professionals in diagnosing and

DIFFERENTIAL EQUATIONS AND THEIR

APPLICATIONS

Were you looking for the book with access to MyMathLab Global? This product is the book alone and does NOT come with access to MyMathLab Global. Buy Thomas' Calculus, Thirteenth Edition with MyMathLab Global access card (ISBN 9781292089942) if you need access to MyMathLab Global as well, and save money on this resource. You will also need a course ID from your instructor to access MyMathLab Global. This text is designed for a three-semester or four-quarter calculus course (math, engineering, and science majors). Thomas' Calculus, Thirteenth Edition, introduces students to the intrinsic beauty of calculus and the power of its applications. For more than half a century, this text has been revered for its clear and precise explanations, thoughtfully chosen examples, superior figures, and time-tested exercise sets. With this new edition, the exercises were refined, updated, and expanded—always with the goal of developing technical competence while furthering students' appreciation of the subject. Co-authors Hass and Weir have made it their passion to improve the text in keeping with the shifts in both the preparation and ambitions of today's students. The text is available with a robust MyMathLab course—an online homework, tutorial, and study solution. In addition to interactive multimedia features like lecture videos and eBook, nearly 9,000 algorithmic exercises are available for students to get the practice they need. MyMathLab is an online homework, tutorial, and assessment product designed to personalize learning and improve results.

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With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts.

Electrical Properties of Materials

The British National Bibliography

A revolutionary, collaborative approach to design and construction project delivery Integrated Project Delivery is the first book-length discussion of IPD, the emergent project delivery method that draws on each stakeholder's unique knowledge to address problems before they occur. Written by authors with over a decade of research and practical experience, this book provides a primer on IPD for architects, designers, and students interested in this revolutionary approach to design and construction. With a focus on IPD in everyday operation, coverage includes a detailed explanation and analysis of IPD guidelines, and case studies that show how real companies are applying these guidelines on real-world projects. End-of-chapter questions help readers quickly review what they've learned, and the online forum allows them to share their insights and ideas with others who either have or are in the process of implementing IPD themselves. Integrated Project Delivery brings together the owners, architect, engineers, and contractors early in the development stage to ensure that problems are caught early, and to address them in a collaborative way. This book describes the parameters of this new, more efficient

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approach, with expert insight on real-world implementation. Compare traditional procurement with IPD Understand IPD guidelines, and how they're implemented Examine case studies that illustrate everyday applications Communicate with other IPD adherents in the online forum The IPD approach revolutionizes not only the workflow, but the relationships between the stakeholders – the atmosphere turns collaborative, and the team works together toward a shared goal instead of viewing one another as obstructions to progress. Integrated Project Delivery provides a deep exploration of this approach, with practical guidance and expert insight.

Introduction to Computational Fluid Dynamics

Lists more than 1,600 colleges and universities and provides information about admissions and academic programs.

Brief

NATIONAL BESTSELLER 2nd REVISED & UPDATED EDITION With Trigonometry Vedic mathematics is gaining widespread popularity among the student community as well as maths lovers. The absence of a book, explaining the techniques in a simple language, has been felt acutely for a long time. This book has been written using a step-by-step approach, and attempts to fill the existing void. It includes several solved problems in addition to 1000 practice problems with answers. It also includes a special

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chapter which shows the application of the techniques to problems set in competitive exams like CAT, CET etc. People from all walks of life including school and college students, teachers, parents and also those from non-mathematical areas of study will discover the joys of solving mathematical problems using the wonderful set of techniques called Vedic Maths.

An Alchemy of Mind

From the New York Times bestselling author of *The Zookeeper's Wife*, an ambitious and enlightening work that combines an artist's eye with a scientist's erudition to illuminate, as never before, the magic and mysteries of the human mind. Long treasured by literary readers for her uncommon ability to bridge the gap between art and science, celebrated scholar-artist Diane Ackerman returns with the book she was born to write. Her dazzling new work, *An Alchemy of Mind*, offers an unprecedented exploration and celebration of the mental fantasia in which we spend our days—and does for the human mind what the bestselling *A Natural History of the Senses* did for the physical senses. Bringing a valuable female perspective to the topic, Diane Ackerman discusses the science of the brain as only she can: with gorgeous, immediate language and imagery that paint an unusually lucid and vibrant picture for the reader. And in addition to explaining memory, thought, emotion, dreams, and language acquisition, she reports on the latest discoveries in neuroscience and addresses controversial subjects like the effects of trauma and male versus female brains. In prose

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that is not simply accessible but also beautiful and electric, Ackerman distills the hard, objective truths of science in order to yield vivid, heavily anecdotal explanations about a range of existential questions regarding consciousness, human thought, memory, and the nature of identity.

DATABASE MANAGEMENT SYSTEMS

This book volume encompasses the recent trends made in the applications of nanoscale tools for diverse constituents of plants and agriculture, particularly in addressing the critical issues related to their safety, efficacy, and efficient and cost-efficient development and production.

Handbook of Advances in Marketing in an Era of Disruptions

The New York Times bestselling author of *Better and Complications* reveals the surprising power of the ordinary checklist. We live in a world of great and increasing complexity, where even the most expert professionals struggle to master the tasks they face. Longer training, ever more advanced technologies—neither seems to prevent grievous errors. But in a hopeful turn, acclaimed surgeon and writer Atul Gawande finds a remedy in the humblest and simplest of techniques: the checklist. First introduced decades ago by the U.S. Air Force, checklists have enabled pilots to fly aircraft of mind-boggling sophistication. Now innovative checklists are being adopted in hospitals around the world, helping

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doctors and nurses respond to everything from flu epidemics to avalanches. Even in the immensely complex world of surgery, a simple ninety-second variant has cut the rate of fatalities by more than a third. In riveting stories, Gawande takes us from Austria, where an emergency checklist saved a drowning victim who had spent half an hour underwater, to Michigan, where a cleanliness checklist in intensive care units virtually eliminated a type of deadly hospital infection. He explains how checklists actually work to prompt striking and immediate improvements. And he follows the checklist revolution into fields well beyond medicine, from disaster response to investment banking, skyscraper construction, and businesses of all kinds. An intellectual adventure in which lives are lost and saved and one simple idea makes a tremendous difference, *The Checklist Manifesto* is essential reading for anyone working to get things right.

Fundamentals of Mathematical Statistics

This book is primarily for a first one-semester course on CFD; in mechanical, chemical, and aeronautical engineering. Almost all the existing books on CFD assume knowledge of mathematics in general and differential calculus as well as numerical methods in particular; thus, limiting the readership mostly to the postgraduate curriculum. In this book, an attempt is made to simplify the subject even for readers who have little or no experience in CFD, and without prior knowledge of fluid-dynamics, heattransfer and numerical-methods. The major emphasis is on

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simplification of the mathematics involved by presenting physical-law (instead of the traditional differential equations) based algebraic-formulations, discussions, and solution-methodology. The physical law based simplified CFD approach (proposed in this book for the first time) keeps the level of mathematics to school education, and also allows the reader to intuitively get started with the computer-programming. Another distinguishing feature of the present book is to effectively link the theory with the computer-program (code). This is done with more pictorial as well as detailed explanation of the numerical methodology. Furthermore, the present book is structured for a module-by-module code-development of the two-dimensional numerical formulation; the codes are given for 2D heat conduction, advection and convection. The present subject involves learning to develop and effectively use a product - a CFD software. The details for the CFD development presented here is the main part of a CFD software. Furthermore, CFD application and analysis are presented by carefully designed example as well as exercise problems; not only limited to fluid dynamics but also includes heat transfer. The reader is trained for a job as CFD developer as well as CFD application engineer; and can also lead to start-ups on the development of "apps" (customized CFD software) for various engineering applications. "Atul has championed the finite volume method which is now the industry standard. He knows the conventional method of discretizing differential equations but has never been satisfied with it. As a result, he has developed a principle that physical laws that characterize the differential equations should be

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reflected at every stage of discretization and every stage of approximation. This new CFD book is comprehensive and has a stamp of originality of the author. It will bring students closer to the subject and enable them to contribute to it." —Dr. K. Muralidhar, IIT Kanpur, INDIA

The Checklist Manifesto

Primarily designed for the postgraduate students of computer science, information technology, software engineering and management, this book, now in its Third Edition, continues to provide an excellent coverage of the basic concepts involved in database management systems. It provides a thorough treatment of some important topics such as data structure, data models and database design through presentation of well-defined algorithms, examples and real-life cases. A detailed coverage of Database Structure, Implementation Design, Hierarchical Database Management Systems, Network Database Management Systems and Relational Database Management Systems, is also focused in this book. This book will also be useful for B.E./B.Tech. students of Computer Science and Engineering and Software Engineering. **NEW TO THIS EDITION** • Introduces three new chapters on rational database languages, namely, Relational Database Management Systems: Oracle 11g SQL, Relational Database Management Systems: Oracle 11g PL/SQL, and Relational Database Management Systems: Access 2013. • Text interspersed with numerous screenshots for practical understanding of the text. • Clearly explained

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procedures in a step-by-step manner with chapter-end questions. • Self-explanatory, labelled figures and tables to conceptual discussion.

Editing Humanity

Python for Everybody is designed to introduce students to programming and software development through the lens of exploring data. You can think of the Python programming language as your tool to solve data problems that are beyond the capability of a spreadsheet. Python is an easy to use and easy to learn programming language that is freely available on Macintosh, Windows, or Linux computers. So once you learn Python you can use it for the rest of your career without needing to purchase any software. This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information". There are free downloadable electronic copies of this book in various formats and supporting materials for the book at www.pythonlearn.com. The course materials are available to you under a Creative Commons License so you can adapt them to teach your own Python course.

Doing the Math of Mission

"A longtime classic text in applied mathematics, this volume also serves as a reference for undergraduate and graduate students of engineering. Topics include real variable theory, complex variables, linear analysis, partial and ordinary differential equations,

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and other subjects. Answers to selected exercises are provided, along with Fourier and Laplace transformation tables and useful formulas. 1978 edition"--

CRC Handbook of Thermal Engineering, Second Edition

Written by skilled specialists in the field of interventional pulmonology, the new Second Edition thoroughly explores the latest advancements, newest therapies, and diagnostic techniques in interventional pulmonary medicine. Using guidelines to ensure maximum quality and efficiency in patient care, this concise text is a must-have resource for all pulmonologists and critical care specialists. New features in the Second Edition include: the latest applications of bronchoscopic therapy for benign conditions (such as COPD and asthma), including endobronchial valves, airway bypass, chemical applications, and thermoplasty diagnostic techniques for airway cancer and peripheral lesions: fluorescence, narrow band, and navigational bronchoscopy, OCT, confocal and raman microscopy, and peripheral EBUS silicone, metal, and hybrid airway stents advances in endoscopic staging of lung cancer new bronchoscopic instrumentation, including the Ultra Thin Scope and Therapeutic Scope, and biopsy measuring and foreign body devices

The Pearson Guide To Inorganic Chemistry For The IIT JEE

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Designed as a textbook for undergraduate students in various engineering disciplines—Mechanical, Civil, Industrial Engineering, Electronics Engineering and Computer Science—and for postgraduate students in Industrial Engineering and Water Resource Management, this comprehensive and well-organized book, now in its Second Edition, shows how complex economic decisions can be made from a number of given alternatives. It provides the managers not only a sound basis but also a clear-cut approach to making decisions. These decisions will ultimately result in minimizing costs and/or maximizing benefits. What is more, the book adequately illustrates the concepts with numerical problems and Indian cases. While retaining all the chapters of the previous edition, the book adds a number of topics to make it more comprehensive and more student friendly. What's New to This Edition

- Discusses different types of costs such as average cost, recurring cost, and life cycle cost.
- Deals with different types of cost estimating models, index numbers and capital allowance.
- Covers the basics of nondeterministic decision making.
- Describes the meaning of cash flows with probability distributions and decision making, and selection of alternatives using simulation.
- Discusses the basic concepts of Accounting.

This book, which is profusely illustrated with worked-out examples and a number of diagrams and tables, should prove extremely useful not only as a text but also as a reference for those offering courses in such areas as Project Management, Production Management, and Financial Management.

The National Union Catalogs, 1963-

Retaining the successful format of the first edition and building on its solid grounding in the principles of renewable energy resources, this second edition has been revised in line with the latest advances in the field to include new technologies and an assessment of their impact. Considering each technology in depth from both scientific and environmental perspectives, it covers solar energy, photovoltaic, wind, wave, tidal and hydro power, biofuels, geothermals and more, as well as featuring a new chapter on institutional factors, including economics. In addition, extra worked problems and case studies are also provided to help readers put theory into practice. Reading and web-based material for further study is indicated after each chapter, making this text ideal, not only for practitioners, but also for students on multi-disciplinary masters degrees in science and engineering as well specialist modules in science and engineering first degrees.

Advanced Engineering Mathematics

Thomas' Calculus

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need

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to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement.

Higher Engineering Mathematics (Sem-III)

Foundations of Applied Mathematics

This book is designed to cover all of the mathematical topics required in the typical engineering curriculum. Hundreds of examples with worked out solutions provide a self-study format for both engineering students and as a refresher course for practicing engineers. Covers Algebra, Vectors, Geometry, Calculus, Series, Differential Equations, Complex Analysis, Transforms, Numerical Methods, Statistics, and special topics.

Where Will Man Take Us?

NanoAgroceuticals & NanoPhytoChemicals

An informal and highly accessible writing style, a simple treatment of mathematics, and clear guide to

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applications, have made this book a classic text in electrical and electronic engineering. Students will find it both readable and comprehensive. The fundamental ideas relevant to the understanding of the electrical properties of materials are emphasized; in addition, topics are selected in order to explain the operation of devices having applications (or possible future applications) in engineering. The mathematics, kept deliberately to a minimum, is well within the grasp of a second-year student. This is achieved by choosing the simplest model that can display the essential properties of a phenomenon, and then examining the difference between the ideal and the actual behaviour. The whole text is designed as an undergraduate course. However most individual sections are self contained and can be used as background reading in graduate courses, and for interested persons who want to explore advances in microelectronics, lasers, nanotechnology and several other topics that impinge on modern life.

Bioengineered Nanomaterials

The CRC Handbook of Thermal Engineering, Second Edition, is a fully updated version of this respected reference work, with chapters written by leading experts. Its first part covers basic concepts, equations and principles of thermodynamics, heat transfer, and fluid dynamics. Following that is detailed coverage of major application areas, such as bioengineering, energy-efficient building systems, traditional and renewable energy sources, food processing, and aerospace heat transfer topics. The latest numerical

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and computational tools, microscale and nanoscale engineering, and new complex-structured materials are also presented. Designed for easy reference, this new edition is a must-have volume for engineers and researchers around the globe.

The Pearson Guide to Organic Chemistry for the JEE Advanced

Indian Books in Print

Learn functional data structures and algorithms for your applications and bring their benefits to your work now About This Book Moving from object-oriented programming to functional programming? This book will help you get started with functional programming. Easy-to-understand explanations of practical topics will help you get started with functional data structures. Illustrative diagrams to explain the algorithms in detail. Get hands-on practice of Scala to get the most out of functional programming. Who This Book Is For This book is for those who have some experience in functional programming languages. The data structures in this book are primarily written in Scala, however implementing the algorithms in other functional languages should be straight forward. What You Will Learn Learn to think in the functional paradigm Understand common data structures and the associated algorithms, as well as the context in which they are commonly used Take a look at the runtime and space complexities with the O notation See how ADTs are implemented in a functional setting

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Explore the basic theme of immutability and persistent data structures Find out how the internal algorithms are redesigned to exploit structural sharing, so that the persistent data structures perform well, avoiding needless copying. Get to know functional features like lazy evaluation and recursion used to implement efficient algorithms Gain Scala best practices and idioms In Detail Functional data structures have the power to improve the codebase of an application and improve efficiency. With the advent of functional programming and with powerful functional languages such as Scala, Clojure and Elixir becoming part of important enterprise applications, functional data structures have gained an important place in the developer toolkit. Immutability is a cornerstone of functional programming. Immutable and persistent data structures are thread safe by definition and hence very appealing for writing robust concurrent programs. How do we express traditional algorithms in functional setting? Won't we end up copying too much? Do we trade performance for versioned data structures? This book attempts to answer these questions by looking at functional implementations of traditional algorithms. It begins with a refresher and consolidation of what functional programming is all about. Next, you'll get to know about Lists, the work horse data type for most functional languages. We show what structural sharing means and how it helps to make immutable data structures efficient and practical. Scala is the primary implementation languages for most of the examples. At times, we also present Clojure snippets to illustrate the underlying fundamental theme. While writing code, we use ADTs (abstract data types).

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Stacks, Queues, Trees and Graphs are all familiar ADTs. You will see how these ADTs are implemented in a functional setting. We look at implementation techniques like amortization and lazy evaluation to ensure efficiency. By the end of the book, you will be able to write efficient functional data structures and algorithms for your applications. Style and approach Step-by-step topics will help you get started with functional programming. Learn by doing with hands-on code snippets that give you practical experience of the subject.

ENGINEERING ECONOMICS

International Books in Print

New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

Schaum's Outline of Theory and Problems of Advanced Mathematics for Engineers and Scientists

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted

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several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-

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Learning Functional Data Structures and Algorithms

This essential handbook provides church leaders the tools to gather information and define goals, helping to construct a framework of accountability. Metrics are a key tool for discerning purpose and strategy, and the metric resources included will guide any

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church leader who seeks an objective means to monitor the progress of their ministry.

Advanced Engineering Mathematics

Primarily intended for the undergraduate students of mathematics, physics and engineering, this text gives in-depth coverage of differential equations and the methods for solving them. The book begins with the definitions, the physical and geometric origins of differential equations, and the methods for solving the first order differential equations. Then it goes on to give the applications of these equations to such areas as biology, medical sciences, electrical engineering and economics. The text also discusses, systematically and logically, higher order differential equations and their applications to telecommunications, civil engineering, cardiology and detection of diabetes, as also the methods of solving simultaneous differential equations and their applications. Besides, the book provides a detailed discussion on Laplace transforms and their applications, partial differential equations and their applications to vibration of stretched string, heat flow, transmission lines, etc., and calculus of variations and its applications. The book, which is a happy fusion of theory and application, would also be useful to postgraduate students.

NEW TO THIS EDITION • New sections on: (a) Equations reducible to linear partial differential equations (b) General method for solving the second order non-linear partial differential equations (Monge's Method) (c) Lagrange's equations of motion • Number of solved examples in Chapters 5,

7, 8, 9 and 10.

Integrating Project Delivery

An overview of algorithms important to computational structural biology that addresses such topics as NMR and design and analysis of proteins. Using the tools of information technology to understand the molecular machinery of the cell offers both challenges and opportunities to computational scientists. Over the past decade, novel algorithms have been developed both for analyzing biological data and for synthetic biology problems such as protein engineering. This book explains the algorithmic foundations and computational approaches underlying areas of structural biology including NMR (nuclear magnetic resonance); X-ray crystallography; and the design and analysis of proteins, peptides, and small molecules. Each chapter offers a concise overview of important concepts, focusing on a key topic in the field. Four chapters offer a short course in algorithmic and computational issues related to NMR structural biology, giving the reader a useful toolkit with which to approach the fascinating yet thorny computational problems in this area. A recurrent theme is understanding the interplay between biophysical experiments and computational algorithms. The text emphasizes the mathematical foundations of structural biology while maintaining a balance between algorithms and a nuanced understanding of experimental data. Three emerging areas, particularly fertile ground for research students, are highlighted: NMR methodology, design of proteins and other

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molecules, and the modeling of protein flexibility. The next generation of computational structural biologists will need training in geometric algorithms, provably good approximation algorithms, scientific computation, and an array of techniques for handling noise and uncertainty in combinatorial geometry and computational biophysics. This book is an essential guide for young scientists on their way to research success in this exciting field.

Complete Book of Colleges

Get heard by being clear and concise The only way to survive in business today is to be a leancommunicator. Busy executives expect you to respect and managetheir time more effectively than ever. You need to do thegroundwork to make your message tight and to the point. The averageprofessional receives 304 emails per week and checks theirsmartphones 36 times an hour and 38 hours a week. This inattentionhas spread to every part of life. The average attention span hasshrunk from 12 seconds in 2000 to eight in 2012. So, throw them a lifeline and be brief. Author Joe McCormack tackles the challenges of inattention,interruptions, and impatience that every professional faces. Hisproven B.R.I.E.F. approach, which stands for Background, Relevance,Information, Ending, and Follow up, helps simplify and clarifycomplex communication. BRIEF will help yousummarize lengthy information, tell a short story, harness thepower of infographics and videos, and turn monologue presentationsinto controlled

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conversations. Details the B.R.I.E.F. approach to distilling your message into a brief presentation. Written by the founder and CEO of Sheffield Marketing Partners, which specializes in message and narrative development, who is also a recognized expert in Narrative Mapping, a technique that helps clients achieve a clearer and more concise message. Long story short: BRIEF will help you gain the muscle you need to eliminate wasteful words and stand out from the rest. Be better. Be brief.

Scientific and Technical Books and Serials in Print, 1989

The Power of Vedic Maths

One of the world's leading experts on genetics unravels one of the most important breakthroughs in modern science and medicine. If our genes are, to a great extent, our destiny, then what would happen if mankind could engineer and alter the very essence of our DNA coding? Millions might be spared the devastating effects of hereditary disease or the challenges of disability, whether it was the pain of sickle-cell anemia to the ravages of Huntington's disease. But this power to "play God" also raises major ethical questions and poses threats for potential misuse. For decades, these questions have lived exclusively in the realm of science fiction, but as Kevin Davies powerfully reveals in his new book, this is all about to change. Engrossing and page-turning, *Editing Humanity* takes readers inside the fascinating

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world of a new gene editing technology called CRISPR, a high-powered genetic toolkit that enables scientists to not only engineer but to edit the DNA of any organism down to the individual building blocks of the genetic code. Davies introduces readers to arguably the most profound scientific breakthrough of our time. He tracks the scientists on the front lines of its research to the patients whose powerful stories bring the narrative movingly to human scale. Though the birth of the “CRISPR babies” in China made international news, there is much more to the story of CRISPR than headlines seemingly ripped from science fiction. In *Editing Humanity*, Davies sheds light on the implications that this new technology can have on our everyday lives and in the lives of generations to come.

Renewable Energy Resources

The first person who will live to be 150 years old has already been born. The screen that we peer into will soon be within us. We could soon be taking happiness pills before breakfast. The perfect partner might need to be charged before bed. This is a new world we are walking into. And the man who began this journey won't be the man who ends this journey. *Where Will Man Take Us?* explores the changes technology is bringing about in us-as a society and as a species. What will the next generation turn into, what will it be like, how will the new Adam and Eve live and love? In this book, Atul Jalan tackles nanotechnology, artificial intelligence, quantum computing and genetics, seamlessly weaving the future of technology with the

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changing dynamics of human love, morality and ethics.

Algorithms in Structural Molecular Biology

New Scientist

We are in an era of massive disruptions in markets, media, management approaches and business models. These disruptions are being caused by rapid technological changes on the one hand and tectonic shifts in customer preferences and societal behaviour on the other. Marketing knowledge and practices have to advance at a significantly higher pace to address the changing context of market behaviour. Handbook of Advances in Marketing in an Era of Disruptions is meant to share ideas and new knowledge that are relevant to this world of disruptions. Leading scholars from around the world, who have keenly observed the changing market environment, business policies, parameters, theories, methods and practices, have put forth their theses on how marketing thinking needs to evolve to keep pace with the market reality. This book is dedicated to Professor Jagdish N. Sheth and honours his sustained contribution as a management thinker, scholar, academician and corporate adviser in an illustrious career spanning over five decades.

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