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Advances in Computing and Intelligent Systems - Harish Sharma 2020-01-03
This book gathers selected papers presented at the International Conference on Advancements in Computing and Management (ICACM 2019). Discussing current research in the field of artificial intelligence and machine learning, cloud computing, recent trends in security, natural language processing and machine translation, parallel and distributed algorithms, as well as pattern recognition and analysis, it is a valuable resource for academics, practitioners in industry and decision-makers.

Electromagnetic Field Theory - Uday A. Bakshi 2020-11-01
The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course

Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The

book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.
A Textbook Of Engineering Physics (As Per Vtu Syllabus) - S.O. Pillai 2014-08

Advanced Engineering Mathematics - R. K. Jain 2007-01-01
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.
Math standards review and practice workbook, teacher's guide - Laurie E. Bass 2008

Recent Trends in Civil Engineering - K. K. Pathak 2020-09-27
This book presents the selected peer-reviewed proceedings of the International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019). The volume focuses on latest research and advances in the field of civil engineering and materials science such as design and development of new environmental materials, performance testing and verification of smart materials, performance analysis and simulation of steel structures, design and performance optimization of concrete structures, and building materials analysis. The book also covers studies in geotechnical engineering, hydraulic engineering, road and bridge engineering, building services design, engineering management, water resource engineering and renewable energy. The contents of this book will be useful for students, researchers and professionals working in civil engineering.
Handbook of Engineering Mathematics - Walter E. Wynne 1916

Algebra I - Alexey L. Gorodentsev 2016-11-24
This book is the first volume of

an intensive "Russian-style" two-year graduate course in abstract algebra, and introduces readers to the basic algebraic structures – fields, rings, modules, algebras, groups, and categories – and explains the main principles of and methods for working with them. The course covers substantial areas of advanced combinatorics, geometry, linear and multilinear algebra, representation theory, category theory, commutative algebra, Galois theory, and algebraic geometry – topics that are often overlooked in standard undergraduate courses. This textbook is based on courses the author has conducted at the Independent University of Moscow and at the Faculty of Mathematics in the Higher School of Economics. The main content is complemented by a wealth of exercises for class discussion, some of which include comments and hints, as well as problems for independent study.

Progress in Advanced Computing and Intelligent Engineering - Bibudhendu Pati

2018-12-17
The book gathers high-quality research papers presented at the International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017). It includes technical sections describing progress in the fields of advanced computing and intelligent engineering, and is primarily intended for postgraduate students and researchers working in Computer Science and Engineering. However, researchers working in Electronics will also find the book useful, as it addresses hardware technologies and next-gen communication technologies.

Engineering Mathematics I - Sergei Silvestrov 2016-11-26 This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods and algorithms most relevant for applications in modern technologies and engineering. In particular, it features

mathematical methods and models of applied analysis, probability theory, differential equations, tensor analysis and computational modelling used in applications to important problems concerning electromagnetics, antenna technologies, fluid dynamics, material and continuum physics and financial engineering. The individual chapters cover both theory and applications, and include a wealth of figures, schemes, algorithms, tables and results of data analysis and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and to further compare and analyse the methods and results discussed.The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications.It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics, as well as in the areas of applications of mathematics considered in the book.

Engineering Mathematics II - Sergei Silvestrov 2017-02-10 This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods

and algorithms most relevant for applications in modern technologies and engineering. It addresses mathematical methods of algebra, applied matrix analysis, operator analysis, probability theory and stochastic processes, geometry and computational methods in network analysis, data classification, ranking and optimisation. The individual chapters cover both theory and applications, and include a wealth of figures, schemes, algorithms, tables and results of data analysis and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and to further compare and analyse the methods and results discussed. The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics, as well as in the areas of applications of mathematics considered in the book.
Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems - Shubhakar Kalya 2021-04-10 This book comprises select peer-reviewed papers from the International Conference on

VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems (VSPICE-2020). The book provides insights into various aspects of the emerging fields in the areas Electronics and Communication Engineering as a holistic approach. The various topics covered in this book include VLSI, embedded systems, signal processing, communication, power electronics and internet of things. This book mainly focuses on the most recent innovations, trends, concerns and practical challenges and their solutions. This book will be useful for academicians, professionals and researchers in the area of electronics and communications and electrical engineering.

Operations Research - P. Ramamurthy 2007

The Cambridge Handbook of Creativity and Personality Research - Gregory J. Feist 2017-03-06
As individual subjects, creativity and personality have been the focus of much research and many publications. This Cambridge Handbook is the first to bring together these two topics and explores how personality and behavior affects creativity. Contributors from around the globe present cutting-edge research about how personality traits and motives make creative behavior more likely. Many aspects of personality and behavior are examined in the chapters, including genius, emotions, psychopathology, entrepreneurship, and multiculturalism, to analyse the impact of these on creativity. The Cambridge Handbook of Creativity and Personality Research will be the definitive resource for researchers, students and academics who study psychology, personality, and creativity.

Internal Combustion Engines - R. K. Singal 2009

Higher Engineering Mathematics - John Bird 2017-04-07
Now in its eighth edition, Higher Engineering

Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

An Introduction to Atmospheric Physics - David G. Andrews 2010-04-29
Contributor biographical information for An introduction to atmospheric physics / David G. Andrews. Bibliographic record and links to related information available from the Library of Congress catalog Biographical text provided by the publisher (may be incomplete or contain other coding). The Library of Congress makes no claims as to the accuracy of the information provided, and will not maintain or otherwise edit/update the information supplied by the publisher. -- -- David Andrews has been a lecturer in Physics at Oxford University and a Physics tutor at Lady Margaret Hall, Oxford, for 20 years. During this time he has had extensive experience of teaching a wide range of physics courses, including atmospheric physics. This experience has included giving lectures to large student audiences and also giving tutorials to small groups. Tutorials, in particular, have given him insights into the kinds of problems that physics students encounter when learning atmospheric physics, and the kinds of topics that excite them. His broad teaching experience has also helped him introduce students to connections between topics in atmospheric physics and related topics in other areas of physics. He feels that it is

particularly important to expose today's physics students to the excitements and challenges presented by the atmosphere and climate. He has also published a graduate textbook, Middle Atmosphere Dynamics, with J.R. Holton and C.B. Leovy (1987, Academic Press). He is a Fellow of the Royal Meteorological Society, a Member of the Institute of Physics, and a Member of the American Meteorological Society.

A Textbook Of Engineering Mathematics-I : (As Per The New Syllabus, B.Tech. I Year Of U.P. Technical University) - Gangwar 2009

Visions and Concepts for Education 4.0 - Michael E. Auer 2021-02-05
This book contains papers in the fields of Interactive, Collaborative, and Blended Learning; Technology-Supported Learning; Education 4.0; Pedagogical and Psychological Issues. With growing calls for affordable and quality education worldwide, we are currently witnessing a significant transformation in the development of post-secondary education and pedagogical practices. Higher education is undergoing innovative transformations to respond to our urgent needs. The change is hastened by the global pandemic that is currently underway. The 9th International Conference on Interactive, Collaborative, and Blended Learning: Visions and Concepts for Education 4.0 was conducted in an online format at McMaster University, Canada, from 14th to 15th October 2020, to deliberate and share the innovations and strategies. This conference's main objectives were to discuss guidelines and new concepts for engineering education in higher education institutions, including emerging technologies in learning; to debate new conference format in worldwide pandemic and post-pandemic conditions; and to discuss new technology-based tools and resources that drive the education in non-traditional ways such as

Education 4.0. Since its beginning in 2007, this conference is devoted to new learning approaches with a focus on applications and experiences in the fields of interactive, collaborative, and blended learning and related new technologies. Currently, the ICBL conferences are forums to exchange recent trends, research findings, and disseminate practical experiences in collaborative and blended learning, and engineering pedagogy. The conference bridges the gap between 'pure' scientific research and the everyday work of educators. Interested readership includes policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, industry-centric educators, continuing education practitioners, etc. Albright's Chemical Engineering Handbook - Lyle Albright 2008-11-20 Taking greater advantage of powerful computing capabilities over the last several years, the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering. Albright's Chemical Engineering Handbook represents a reliable source of updated methods, applications, and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations. Well-rounded, concise, and practical by design, this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties. Each chapter provides a clear review of basic information, case examples, and references to additional, more in-depth information. They explain essential principles, calculations, and issues relating to topics including reaction engineering, process control and design, waste disposal, and electrochemical and biochemical engineering. The final chapters cover aspects of patents and intellectual property, practical

communication, and ethical considerations that are most relevant to engineers. From fundamentals to plant operations, Albright's Chemical Engineering Handbook offers a thorough, yet succinct guide to day-to-day methods and calculations used in chemical engineering applications. This handbook will serve the needs of practicing professionals as well as students preparing to enter the field.

Power System Operation and Control - Sivanagaraju, S. Power System Operation and Control is comprehensively designed for undergraduate and postgraduate courses in electrical engineering. This book aims to meet the requirements of electrical engineering students and is useful for practicing engineers.

A Text Book of Engineering Mathematics - Rajesh Pandey 2009-01-01

Engineering Polymer Systems for Improved Drug Delivery - Rebecca A. Bader 2014-01-17
Polymers have played a critical role in the rational design and application of drug delivery systems that increase the efficacy and reduce the toxicity of new and conventional therapeutics. Beginning with an introduction to the fundamentals of drug delivery, Engineering Polymer Systems for Improved Drug Delivery explores traditional drug delivery techniques as well as emerging advanced drug delivery techniques. By reviewing many types of polymeric drug delivery systems, and including key points, worked examples and homework problems, this book will serve as a guide to for specialists and non-specialists as well as a graduate level text for drug delivery courses.

Additional Mathematics - 1: Additional Mathematics - for VTU Lateral Entry Students - C. Pandurangappa 2019-10-25
This book Additional Mathematics - I, 4th Edition, is the bridge course text book of Mathematics for the lateral entry (diploma quota) students and is designed for 3rd

semester Engineering course at the Visvesvaraya Technological University (VTU). The content is explained in 5 modules using simple and lucid language. The introductory chapter 0 being "Preliminaries -Short Notes". This chapter is to refresh and recollect your understanding, at the lower classes. Module 1 begins with Complex Trigonometry and Vector Algebra, continues with explanations on concepts like Complex Numbers: Definitions & Properties. Modulus and amplitude of a complex number, Argand's diagram, De-Moivre's theorem and start off with Vector Algebra, with a generous sprinkle of worked out examples. Module 2 and 3 is dedicated to Differential Calculus & Vector Calculus, Module 4 for Integral Calculus and concludes with Module 5 ODE's (Ordinary Differential Equations) which explains Introduction to first order differential equations and Linear differential equations and terminates with explaining Bernoullis equation. The author also explains Homogeneous Equations, Equations Reducible to Homogeneous, Linear Differential Equations, Exact Differential Equations, Equations Reducible to Exact Equations. As usual, varieties of worked examples and a large number of exercise problems are provided in the text to strengthen the problems solving ability and concept understanding of students.
Elements of MECHANICAL ENGINEERING - V. K. MANGLIK 2013-04-08
This book provides a comprehensive and wide-ranging introduction to the fundamental principles of mechanical engineering in a distinct and clear manner. The book is intended for a core introductory course in the area of foundations and applications of mechanical engineering, prescribed for the first-year students of all disciplines of engineering. The book develops an intuitive understanding of the basic principles of thermodynamics as well as of the principles governing the conversion of

heat into energy. Numerous illustrative examples are provided to fortify these concepts throughout. The book gives the students a feel for how thermodynamics is applied in engineering practice in the areas of heat engines, steam boilers, internal combustion engines, refrigeration and air conditioning, and to devices such as turbines, pumps and compressors. The book also provides a basic understanding of mechanical design, illustrating the principles through a discussion of devices designed for the transmission of motion and power such as couplings, clutches and brakes. No book on basic mechanical engineering is complete without an introduction to materials science. The text covers the treatment of the common engineering materials, highlighting their properties and applications. Finally, the role of lubrication and lubricants in reducing the wear and tear of parts in mechanical systems, is lucidly explained in the concluding chapter. The text features several fully worked-out examples, a fairly large number of numerical problems with answers, end-of-chapter review questions and multiple choice questions, which all enhance the value of the text to the students. Besides the students studying for an engineering degree, this book is also suitable for study by the students of AMIE and the students of diploma level courses.

Advanced Engineering Mathematics - Michael Greenberg 2013-09-20 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 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.

Innovations in Electrical and Electronics Engineering - H. S. Saini 2020-03-24 This book is a collection of selected research papers presented at the International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE 2019), which was organized by the Guru Nanak Institutions, Ibrahimpatnam, Hyderabad, Telangana, India, on July 26–27, 2019. The book highlights the latest developments in electrical and electronics engineering, especially in the areas of power systems, power electronics, control systems, electrical machinery, and renewable energy. The solutions discussed here will encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

Global Mental Health - Vikram Patel 2013-11 This is the definitive textbook on global mental health, an emerging priority discipline within global health, which places priority on improving mental health and achieving equity in mental health for all people worldwide.

Higher Mathematics for Physics and Engineering - Hiroyuki Shima 2010-04-12 Due to the rapid expansion of the frontiers of physics and engineering, the demand for higher-level mathematics is increasing yearly. This book is designed to provide accessible knowledge of higher-level mathematics demanded in contemporary physics and engineering. Rigorous mathematical structures of important subjects in these fields are fully covered, which will be helpful for readers to become acquainted with certain abstract mathematical concepts. The selected topics are: - Real analysis, Complex analysis, Functional analysis, Lebesgue integration theory, Fourier analysis, Laplace

analysis, Wavelet analysis, Differential equations, and Tensor analysis. This book is essentially self-contained, and assumes only standard undergraduate preparation such as elementary calculus and linear algebra. It is thus well suited for graduate students in physics and engineering who are interested in theoretical backgrounds of their own fields. Further, it will also be useful for mathematics students who want to understand how certain abstract concepts in mathematics are applied in a practical situation. The readers will not only acquire basic knowledge toward higher-level mathematics, but also imbibe mathematical skills necessary for contemporary studies of their own fields.

The Woman From Obscurity to the Wings of Change: A Book for the Upcoming Woman, the Girl-Child, and Their Supporters - Onu Felix Madu Wogu Bsc Mba Ksc 2021-09-07 The Woman From Obscurity to the Wings of Change This book is all about the woman. God created the woman when he saw and said, "It is not good that the man should be alone" (Genesis 2:18). God was not satisfied, at a stage, with the performances of Adam alone in the garden of Eden. God therefore created the woman for fruitfulness and to unveil hidden knowledge, wisdom, and procreation in fulfillment of God's blessings and wishes for his creation on earth. The men on earth became jealous and suspicious of the woman because of her nature and qualities. The early religious leaders, family heads, the community leaders, authors and Bible writers, the governments in the Middle East, and society in general made laws and culture aimed at demeaning and downplaying the woman's qualities and contributions. They veiled the woman to obscurity in the land. Centuries later, women passed through changes toward emancipation as a result of pressure by feminist groups, government and civil society agencies in developed and civilized countries who made

legislations and edicts prohibiting discrimination and gender inequality laws against women. Several women and men organizations in cooperation with government-initiated activities and made laws aimed at abolishing all kinds of gender discrimination in their nations. As a result of these laws, women became not just educated, but they became educators in various fields of science and technology. Highflier women became professors, doctors, engineers, pilots, political leaders, heads of states, and industrial leaders in their nations. Today's women are on the wings of change. They now compete with men all over the world. Women are becoming more equal to men than expected. Many men are confused and are looking up to the women highfliers for direction.
Engineering Chemistry - R. V. Gadag 2010-09-30 Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase between the principles of chemistry and engineering. KEY FEATURES * Chapters cover both basic principles of chemistry as also its applied aspects. * Written in easy self-explanatory language and in depth at the same time. * Review questions provided at the end of each chapter. * A separate section 'Laboratory Manual' in Engineering Chemistry comprising 12 experiments is appended at the end of the book.
Engineering Mathematics - III - M Y Gokhale 2017-06-17 1 Linear differential equations with constant coefficients 2 Simultaneous linear Differential Equations 3 Applications of Differential Equations 4 System of linear equations 5 Numerical solution of ordinary differential equations 6 Statistics correlation and regression 7 Probability and probability distributions 8 Vector algebra 9 Vector differentiation 10 Vector integration 11 Application of vectors to fluid mechanics 12 Application of partial differential equations

Engineering Mathematics-II
- A. Ganeshi 2009
About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou.

Theory of Computer Science
- K. L. P. Mishra 2006-01-01
This Third Edition, in response to the enthusiastic reception given by academia and students to the previous edition, offers a cohesive presentation of all aspects of theoretical computer science, namely automata, formal languages, computability, and complexity. Besides, it includes coverage of mathematical preliminaries. NEW TO THIS EDITION • Expanded sections on pigeonhole principle and the principle of induction (both in Chapter 2) • A rigorous proof of Kleene's theorem (Chapter 5) • Major changes in the chapter on Turing machines (TMs) – A new section on high-level description of TMs – Techniques for the construction of TMs – Multitape TM and nondeterministic TM • A new chapter (Chapter 10) on decidability and recursively enumerable languages • A new chapter (Chapter 12) on complexity theory and NP-complete problems • A section on quantum computation in Chapter 12. • KEY FEATURES • Objective-type questions in each chapter—with answers provided at the end of the book. • Eighty-three additional solved examples—added as Supplementary Examples in each chapter. • Detailed solutions at the end of the book to chapter-end exercises. The book is designed to meet the

needs of the undergraduate and postgraduate students of computer science and engineering as well as those of the students offering courses in computer applications. *Complete Chemistry For JEE-Main | JEE-Main & Advanced (Organic, Physical, Inorganic) Medium - English* - Gurcharanam Academy Private Limited 2019-03-01 Complete Chemistry For JEE-Main | JEE-Main & Advanced (Organic, Physical, Inorganic) Medium - English

Basic Engineering Mathematics - John Bird 2017-07-14 Now in its seventh edition, Basic Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

S Chand Higher Engineering Mathematics - H K Dass 2011 For Engineering students & also useful for competitive Examination.

Mathematics-I Calculus and Linear Algebra (BSC-105) (For Computer Science & Engineering Students only) - Bhui, Bikas Chandra & Chatterjee Dipak Mathematics-I for the paper BSC-105 of the latest AICTE syllabus has been written for the first semester engineering students of Indian universities. Paper BSC-105 is exclusively for CS&E students. Keeping in mind that the students are at the threshold of a completely new domain, the book has been planned with utmost care in the exposition of concepts, choice of illustrative examples, and also in sequencing of

topics. The language is simple, yet accurate. A large number of worked-out problems have been included to familiarize the students with the techniques to solving them, and to instill confidence.Authors' long experience of teaching various grades of students has helped in laying proper emphasis on various techniques of solving difficult problems.

A Textbook of Engineering Physics - M N Avadhanulu 1992
A Txtbook of Engineering Physics is written with two distinct objectives:to provied a single source of information for engineering undergraduates of different specializations and provied them a solid base in physics.Successivs editions of the book incorporated topic as required by students pursuing their studies in various universities.In this new edition the contents are fine-tuned,modeinized and updated at various stages.

Software for Exascale Computing - SPPEXA 2016-2019 - Hans-Joachim Bungartz 2020-08-24

This open access book summarizes the research done and results obtained in the second funding phase of the Priority Program 1648 "Software for Exascale Computing" (SPPEXA) of the German Research Foundation (DFG) presented at the SPPEXA Symposium in Dresden during October 21-23, 2019. In that respect, it both represents a continuation of Vol. 113 in Springer's series Lecture Notes in Computational Science and Engineering, the corresponding report of SPPEXA's first funding phase, and provides an overview of SPPEXA's contributions towards exascale computing in today's sumpercomputer technology. The individual chapters address one or more of the research directions (1) computational algorithms, (2) system software, (3) application software, (4) data management and exploration, (5) programming, and (6) software tools. The book has an interdisciplinary appeal: scholars from computational

sub-fields in computer science, mathematics, physics, or engineering will find it of particular interest.