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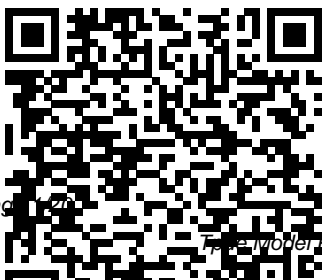
Estimating in Building Construction CRC Press
This substantially revised second edition takes into account the provisions of the revised Indian Code of practice for Plain and Reinforced Concrete IS 456 : 2000. It also provides additional data on detailing of steel to make the book more useful to practicing engineers. The chapter on Limit State of Durability for Environment has been completely revised and the new provisions of the code such as those for design for shear in reinforced concrete, rules for shearing main steel in slabs, lateral steel in columns, and stirrups in beams have been explained in detail in the new edition. This comprehensive and systematically organized book is intended for undergraduate students of Civil Engineering, covering the first course on Reinforced Concrete Design and as a reference for the practicing engineers. Besides covering IS 456 : 2000, the book also deals with the British and US Codes. Advanced topics of IS 456 : 2000 have been discussed in the companion volume Advanced Reinforced Concrete Design (also published by Prentice-Hall of India). The two books together cover all the topics in IS 456 : 2000 and many other topics which are so important in modern methods of design of reinforced concrete.

Linear and Nonlinear Waves Springer Science & Business Media
The book "Quantitative Aptitude for Competitive Exams" contains specific topics in Quantitative Aptitudewhich form a part of most of the Competitive Exams. The book contains to the point theory in all the chapters with illustrations followed by an exercise with detailed solutions. The book covers a lot of questions from the past competitive exams. The book is a MUST for all SSC/Banking/Railways/Defense/Insurance Exam aspirants.

Advanced Mathematics for Engineering Students Cambridge University Press

Fundamentals of Materials Science and Engineering takes an integrated approach to the sequence of topics – one specific structure, characteristic, or property type is covered in turn for all three basic material types: metals, ceramics, and polymeric materials. This presentation permits the early introduction of non-metals and supports the engineer's role in choosing materials based upon their characteristics. Using clear, concise terminology that is familiar to students, Fundamentals presents material at an appropriate level for both student comprehension and instructors who may not have a materials background. **Advances in Fluid Mechanics IX** John Wiley & Sons Design and Analysis of Analog Filters: A Signal Processing Perspective includes signal processing/systems concepts as well as implementation.

While most books on analog filter design briefly present the signal processing/systems concepts, and then concentrate on a variety of filter implementation methods, the present book reverses the emphasis, stressing signal processing concepts. Filter implementation topics are presented in Part II: passive filters, and operational amplifier active filters. However, greater emphasis on signal processing/systems concepts is included in Part I of the book than is typical. This emphasis makes the book very appropriate as part of a signal processing

curriculum. Useful engineering Aspects of Design and background, with a Analysis of Analog B.S. degree or Filters: A Signal beyond, or at the Processing senior level. While Perspective extensive designed as a use of MATLAB® textbook, its throughout, with many numerous practical homework problems examples make it involving the use of useful as a reference MATLAB. over 200 for practicing figures; over 100 engineers and examples; a total of scientists, 345 homework particularly those problems, appearing working in systems at the ends of the design or chapters; complete communications. and thorough MATLAB® Examples: A presentation of valuable relationship design between analog filter characteristics; theory and analysis complete catalog of and modern digital design approaches. signal processing is Audience: Design and made by the Analysis of Analog application of MATLAB Filters: A Signal to both the design Processing and analysis of Perspective will analog filters. interest anyone with Throughout the book, a standard electrical computer-oriented

problems are assigned. The disk that accompanies this book contains MATLAB functions and m-files written specifically for this book. The MATLAB functions on the disk extend basic MATLAB capabilities in terms of the design and analysis of analog filters. The m-files are used in a number of examples in the book. They are included on the disk as an instructional aid.

Fundamentals of Materials Science and Engineering: An Integrated Approach, 5th Edition Bloomsbury Publishing USA
This book has been designed for Undergraduate (Honours) and Postgraduate students of various Indian Universities.A set of objective problems has been provided at the end of each chapter which will be useful to the aspirants of competitve examinations

Applications of Advanced Oxidation Processes (AOPs) in Drinking Water Treatment Butterworth-Heinemann
A resource book applying mathematics to solve engineering problems Applied Engineering Analysis is a concise textbookwhich demonstrates how toapply mathematics to solve engineering problems. It begins with an overview of engineering analysis and an introduction to mathematical modeling, followed by vector calculus, matrices and linear algebra, and applications of first and second order differential equations. Fourier series and Laplace transform are

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also covered, along with partial differential equations, numerical solutions to nonlinear and differential equations and an introduction to finite element analysis. The book also covers statistics with applications to design and statistical process controls. Drawing on the author's extensive industry and teaching experience, spanning 40 years, the book takes a pedagogical approach and includes examples, case studies and end of chapter problems. It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors. Key features: Strong emphasis on deriving equations, not just solving given equations, for the solution of engineering problems. Examples and problems of a practical nature with illustrations to enhance student's self-learning. Numerical methods and techniques, including finite element analysis. Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control (SPC). Applied Engineering Analysis is a resource book for engineering students and professionals to learn how to apply the mathematics experience and skills that they have already acquired to their engineering profession for innovation, problem solving, and decision making.

Applied Engineering Analysis Butterworth-Heinemann
The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage

of the magnetic circuits, magnetic materials, single and three phase transformers and d.c. machines. The book is structured to cover the key aspects of the course Electrical Machines - I. The book starts with the explanation of basics of magnetic circuits, concepts of self and mutual inductances and important magnetic materials. Then it explains the fundamentals of single phase transformers including the construction, phasor diagram, equivalent circuit, losses, efficiency, methods of cooling, parallel operation and autotransformer. The chapter on three phase transformer provides the detailed discussion of construction, connections, phasor groups, parallel operation, tap changing transformer and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems. Then the book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics, parallel operation and applications. The book also includes the details of d.c. motors such as characteristics, types of starters, speed control methods, electric braking and permanent magnet d.c. motors. Finally, the book covers the various

testing methods of d.c. machines including Swinburne's test, brake test, retardation test and Hopkinson's test. 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. Each chapter is well supported with necessary illustrations, self-explanatory diagrams and variety of solved problems. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Electrical Machines - I Disha Publications Introduce every concept in the simplest setting and to maintain a level of treatment that is as rigorous as possible without being unnecessarily abstract. Contains unique recent developments of various finite elements such as nonconforming, mixed, discontinuous, characteristic, and adaptive finite elements, along with their applications. Describes unique recent applications of finite element methods to important fields such as multiphase flows in porous media and semiconductor modelling. Treats the three major types of partial differential equations, i.e., elliptic, parabolic, and hyperbolic equations.

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CONCRETE Laxmi Publications

Fluency with physics fundamentals and problem-solving has a collateral effect on students by enhancing their analytical reasoning skills. In a sense, physics is to intellectual pursuits what strength training is to sports. Designed for a two-semester algebra-based course, Essential Physics provides a thorough understanding of the fundamentals of physics central to many fields. It omits material often found in much larger texts that cannot be covered in a year-long course and is not needed for non-physics majors. Instead, this text focuses on providing a solid understanding of basic physics and physical principles. While not delving into the more specialized areas of the field, the text thoroughly covers mechanics, electricity and magnetism, light, and modern physics. This book is appropriate for a course in which the goals are to give the students a grasp of introductory physics and enhance their analytical problem-solving skills. Each topic includes worked examples. Math is introduced as necessary, with some applications in biology, chemistry, and safety science also provided. If exposure to more applications, special topics, and concepts is desired, this book can be used as a problem-solving supplement to a more inclusive text.

Finite Element Methods and Their Applications Oxford University Press In the time since the second edition of The ACS Style Guide was

published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM

author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts. Basic Concepts of Electrical Engineering John Wiley & Sons Ideal for a one-semester course, this concise textbook covers basic electronics for undergraduate students in science and engineering. Beginning with the basics of general circuit laws and resistor circuits to ease students into the subject, the textbook then covers a wide range of topics, from passive circuits through to semiconductor-based analog circuits and basic digital circuits. Using a balance of thorough analysis and insight, readers are shown how to work with electronic circuits and apply the techniques they have learnt. The textbook's structure makes it useful as a self-study introduction to the subject. All mathematics is kept to a suitable level, and there are several exercises throughout the book. Password-protected solutions for instructors, together with eight laboratory exercises that parallel the text, are available online at www.cambridge.org/Eggleston. ACS Style Guide Springer Summary Android in Practice is a treasure trove of Android goodness, with over 90 tested, ready-to-use techniques including complete end-to-end example applications and

practical tips for real world mobile application developers. Written by real world Android developers, this book addresses the trickiest questions raised in forums and mailing lists. Using an easy-to-follow problem/solution/discussion format, it dives into important topics not covered in other Android books, like advanced drawing and graphics, testing and instrumentation, building and deploying applications, and using alternative languages. About the Book It's not hard to find the information you need to build your first Android app. Then what? If you want to build real apps, you will need some how-to advice, and that's what this book is about. Android in Practice is a rich source of Android tips, tricks, and best practices, covering over 90 clever and useful techniques that will make you a more effective Android developer. Techniques are presented in an easy-to-read problem/solution/discussion format. The book dives into important topics like multitasking and services, testing and instrumentation, building and deploying applications, and using alternative languages. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Techniques covering Android 1.x to 3.x Android for tablets Working with threads and concurrency Testing and building Using location awareness and GPS Styles and themes And much more! This book requires a working knowledge of Java, but no prior experience with

Android is assumed. Source Code can be found at https://code.google.com/p/android-in-?practice/ Table of Contents PART 1 BACKGROUND AND FUNDAMENTALS Introducing Android Android application fundamentals Managing lifecycle and state PART 2 REAL WORLD RECIPES Getting the pixels perfect Managing background tasks with Services Threads and concurrency Storing data locally Sharing data between apps HTTP networking and web services Location is everything Appeal to the senses using multimedia 2D and 3D drawing PART 3 BEYOND STANDARD DEVELOPMENT Testing and instrumentation Build management Developing for Android tablets

Symbian OS Internals MacMillan Publishing Company

The near-field earthquake which struck the Hanshin-Awaji area of Japan before dawn on January 17, 1995, in addition to snatching away the lives of more than 6,000 people, inflicted horrendous damage on the region's infrastructure, including the transportation, communication and lifeline supply network and, of course, on buildings, too. A year earlier, the San Fernando Valley area of California had been hit by another near-field quake, the Northridge Earthquake, which dealt a similarly destructive blow to local infrastructures. Following these two disasters, structural engineers and researchers around the

world have been working vigorously to develop methods of design for the kind of structure that is capable of withstanding not only the far-field tectonic earthquakes planned for hitherto, but also the full impact of near-field earthquake. Of the observed types of earthquake damage to steel structures, there are some whose causes are well understood, but many others continue to present us with unresolved problems. To overcome these, it is now urgently necessary for specialists to come together and exchange information. The contents of this volume are selected from the Nagoya Colloquium proceedings will become an important part of the world literature on structural stability and ductility, and will prove a driving force in the development of future stability and ductility related research and design.

Tailored Metal Catalysts PHI Learning Pvt. Ltd. Advanced Mathematics for Engineering Students: The Essential Toolbox provides a concise treatment for applied mathematics. Derived from two semester advanced mathematics courses at the author's university, the book delivers the mathematical foundation needed in an engineering program of study. Other treatments typically provide a thorough but somewhat complicated presentation where students do not appreciate the application. This book focuses on the development of tools to solve most types of mathematical problems that arise in engineering – a "toolbox" for the engineer. It

provides an important foundation but goes one step further and demonstrates the practical use of new technology for applied analysis with commercial software packages (e.g., algebraic, numerical and statistical). Delivers a focused and concise treatment on the underlying theory and direct application of mathematical methods so that the reader has a collection of important mathematical tools that are easily understood and ready for application as a practicing engineer The book material has been derived from class-tested courses presented over many years in applied mathematics for engineering students (all problem sets and exam questions given for the course(s) are included along with a solution manual) Provides fundamental theory for applied mathematics while also introducing the application of commercial software packages as modern tools for engineering application, including: EXCEL (statistical analysis); MAPLE (symbolic and numeric computing environment); and COMSOL (finite element solver for ordinary and partial differential equations)

Quantitative Aptitude for Competitive Exams - SSC/ Banking/ Railways/ Defense/ Insurance Springer Science & Business Media

Shows how algorithms developed from the basic principles of tribology can be used in a range of practical applications in mechanical devices and systems. Includes: bearings, gears, seals, clutches, brakes, tyres.

A Textbook of Strength of Materials Transforms and Partial Differential EquationsOrdinary and Partial Differential Equations

It is now IS years since the first patents in polymer supported metal complex

catalysts were taken out. In the early days ion-exchange resins were used to support ionic metal complexes. Soon covalent links were developed, and after an initially slow start there was a period of explosive growth in the mid to late 1970s during which virtually every homogeneous metal complex catalyst ever reported was also studied bound to a support. Both polymers and inorganic oxides were studied as supports, although the great preponderance of workers studied polymeric supports, and of these polystyrene was by far the commonest used. This period served to show that by very careful design polymer-supported metal complex catalysts could have specific advantages over homogeneous metal complex catalysts. However the subject was a complicated one. Merely immobilising a successful metal complex catalyst to a functionalised support rarely yielded other than an inferior version of the catalyst. Amongst the many discouraging results of the 1970s, there were more than enough results that were sufficiently encouraging to demonstrate that, by careful design, supported metal complex catalysts could be prepared in which both the metal complex and the support combined together to produce an active catalyst which, due to the combination of support and complex, had advantages of activity, selectivity and specificity not found in homogeneous catalysts. Thus a new generation of catalysts was being developed.

Higher Engineering Mathematics 40th Edition Laxmi Publications
An Introduction to Partial Differential Equations with MATLAB, Second Edition illustrates the usefulness of PDEs through numerous applications and helps students appreciate the

beauty of the underlying mathematics. Updated throughout, this second edition of a bestseller shows students how PDEs can model diverse problems, including the flow of heat,

Elementary Partial Differential Equations
CRC Press
This volume reviews the drinking water treatments in which AOPs display a high application potential. Firstly it reveals the typical supply sources and limitations of conventional technologies and critically reviews natural organic matter characterization and removal techniques, focusing mainly on AOP treatments. It then explores using AOPs for simultaneous inactivation/disinfection of several types of microorganisms, including highly resistant Cryptosporidium protozoa. Lastly, it discusses relevant miscellaneous topics, like the most promising AOP solid catalysts, the regime change of Fenton-like processes toward continuous reactors, the application of chemometrics for process optimization, the impact on disinfection byproducts and the tracing of toxicity during AOP treatments. This work is a useful reference for researchers and students involved in water technologies, including analytical and environmental chemistry, chemical and environmental engineering, toxicology, and related

fields. It is intended to encourage industrial and public-health scientists and decision-makers to accelerate the application of AOPs as technological alternatives for the improvement of drinking water treatment plants.

An Introduction to Partial Differential Equations with MATLAB Springer Science & Business Media
From Grandmaster Robert A. Heinlein comes a long-lost first novel, written in 1939 and never before published, introducing ideas and themes that would shape his career and define the genre that is synonymous with his name. July 12, 1939 Perry Nelson is driving along the palisades when suddenly another vehicle swerves into his lane, a tire blows out, and his car careens off the road and over a bluff. The last thing he sees before his head connects with the boulders below is a girl in a green bathing suit, prancing along the shore.... When he wakes, the girl in green is a woman dressed in furs and the sun-drenched shore has transformed into snowcapped mountains. The woman, Diana, rescues Perry from the bitter cold and takes him inside her home to rest and recuperate. Later they debate the cause of the accident, for Diana is unfamiliar with the concept of a tire blowout and Perry cannot comprehend snowfall in mid-July. Then Diana

shares with him a vital piece of information: The date is now January 7. The year...2086. When his shock subsides, Perry begins an exhaustive study of global evolution over the past 150 years. He learns, among other things, that a United Europe was formed and led by Edward, Duke of Windsor; former New York City mayor LaGuardia served two terms as president of the United States; the military draft was completely reconceived; banks became publicly owned and operated; and in the year 2003, two helicopters destroyed the island of Manhattan in a galvanizing act of war. This education in the ways of the modern world emboldens Perry to assimilate to life in the twenty-first century. But education brings with it inescapable truths -- the economic and legal systems, the government, and even the dynamic between men and women remain alien to Perry, the customs of the new day continually testing his mental and emotional resolve. Yet it is precisely his knowledge of a bygone era that will serve Perry best, as the man from 1939 seems destined to lead his newfound peers even further into the future than they could have imagined. A classic example of the future history that Robert Heinlein popularized during his career, For Us, The Living marks both the beginning and the end of an extraordinary arc of

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political, social, and literary crusading that comprises his legacy. Heinlein could not have known in 1939 how the world would change over the course of one and a half centuries, but we have our own true world history to compare with his brilliant imaginings, rendering For Us, The Living not merely a novel, but a time capsule view into our past, our present, and perhaps our future. The novel is presented here with an introduction by acclaimed science fiction writer Spider Robinson and an afterword by Professor Robert James of the Heinlein Society.
Applied Partial Differential Equations Springer Science & Business Media

Very Good,No Highlights or Markup,all pages are intact.

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