

Engineering Made Easy

A concise book for candidates appearing for Mechanical Engineering Exams.

Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered every month in this magazine.

This book deals with the principles and concepts of biomedical engineering in an easy to understand manner. The text is aimed primarily at students of mechanical engineering who opt for an elective in biomedical engineering. However, the coverage of bioinstrumentation, biomaterials and computing for biomedical engineering will meet the needs of electronics and instrumentation engineering students. Most of the sample questions have been taken from university examination papers.

(Book). Now updated to cover digital mixing and signal processing, this established beginners guide to live sound has been the first book for many students and self-taught sound technicians. Ira White presents information in a very accessible, casual, down-to-earth way. This handy manual for musicians, studio engineers and audio pros contains valuable information on using EQ, speaker specifics, mics, and techniques for recording, live recording, club and concert sound, church sound, theatrical sound and much more, without page-filling formulas or mind-boggling abstractions. Includes lots of helpful diagrams, an index, and audio so you can hear the techniques demonstrated in the book.

Tissue Engineering Made Easy Academic Press

"At last! A book on audio that the average person can understand. No endless formulas or abstract terminology. Just the facts, distilled from author Ira White's years of experience. Inside you'll find practical information on how pro audio equipment works and how you can use it to its fullest - all seasoned with just a dash of humor." -back cover.

Computer science is a discipline that extends theory and practice. It needs thinking both in abstract terms and in concrete terms. The practical side of computing can be seen everywhere. Computer science also has strong connections to other disciplines. Many problems in science, engineering, health care, business and other areas can be solved efficiently with computers, but finding a solution requires both computer science expertise and knowledge of particular application domain. Computer science has a wide range of spheres. These embrace computer architecture, software systems, graphics, artificial intelligence, computational science and software engineering. Drawing from a common core of computer science knowledge, each speciality area emphasizes on particular challenges. A Handbook on Computer Science encompasses all the formulae and important theoretical aspects of computer science, with appropriate diagrams, whenever it is appropriate. An extensive coverage of key points for additional information is also given. This handbook covers all essential concepts and terms in computer science.

This book introduces Radio Frequency Cell Site Engineering to a broad audience. The author blends theory and practice to bring readers up-to-date in key concepts, underlying principles and practical applications of wireless communications. The presentation is designed to be easily accessible, minimizing mathematics and maximizing visuals.

A perfect guide to speed up the predicting power of machine learning algorithms Key Features Design, discover, and create dynamic, efficient features for your machine learning application Understand your data in-depth and derive astonishing data insights with the help of this Guide Grasp powerful feature-engineering techniques and build machine learning systems Book Description Feature engineering is the most important step in creating powerful machine learning systems. This book will take you through the entire feature-engineering journey to make your machine learning much more systematic and effective. You will start with understanding your data—often the success of your ML models depends on how you leverage different feature types, such as continuous, categorical, and more, You will learn when to include a feature, when to omit it, and why, all by understanding error analysis and the acceptability of your models. You will learn to convert a problem statement into useful new features. You will learn to deliver features driven by business needs as well as mathematical insights. You'll also learn how to use machine learning on your machines, automatically learning amazing features for your data. By the end of the book, you will become proficient in Feature Selection, Feature Learning, and Feature Optimization. What you will learn Identify and leverage different feature types Clean features in data to improve predictive power Understand why and how to perform feature selection, and model error analysis Leverage domain knowledge to construct new features Deliver features based on mathematical insights Use machine-learning algorithms to construct features Master feature engineering and optimization Harness feature engineering for real world applications through a structured case study Who this book is for If you are a data science professional or a machine learning engineer looking to strengthen your predictive analytics model, then this book is a perfect guide for you. Some basic understanding of the machine learning concepts and Python scripting would be enough to get started with this book.

Aspiring engineers will get a head start with this introduction to the past, present, and future of engineering. Enter a world of engineering with detailed explanations of the history of discovery and innovation that has made modern technology possible. Engineering Made Simple presents the fundamentals of making and creating, from the physics of flying to the chemistry of manufacturing. Each of the ten chapters will connect readers with a topic that helps make sense of engineering. Learn what it means to be an engineer, understand the laws scientists use to push the limits of speed and safety, and discover a past—and anticipate a future—of amazing machines and constructions. Each section will help aspiring young engineers engage with relevant areas in their school's curriculum, complete with knowledge-testing quizzes. Do you like the idea of designing and creating a better world? With this book, young people will discover just how simple—and exciting—engineering can be.

After a quick glance at the plant floor, it is very easy to see the industrial automation industry interoperates with other functions within the enterprise. Trying to keep up with changing technologies, however, is never easy and the industrial automation environment is no exception. Whether you are a student just starting out or are a top-level executive or manager well-versed in one domain, but have limited knowledge of the industrial automation industry, it's easy to find yourself adrift in this evolving industry. That is where this easy-to-read book comes in; it provides a basic functional understanding in the field of industrial automation. In an effort to understand this industry, the authors break down the barriers and confusion surrounding the technical details and terminology used in this converging field. They provide an introductory-level approach, covering most of the major industrial automation topics, such as distributed control systems (DCSs), programmable logic controllers (PLCs), manufacturing execution systems (MESs), and so on. You may even learn a recipe or two. This book is ideal for executives, business managers, information technologists, accountants, maintenance professionals, operators, production planners, just to name a few, and provides an in-depth but easy overview for people new to the field who want to quickly educate themselves.

"The Engineering is Easy" will help project managers learn how to overcome pitfalls in this self-help guide for managing projects. Written in memoir format, this book presents real-world case studies to illustrate good practices and lessons learned for numerous project circumstances.

From cradle to grave, the most common act of man is choice making. We take decision everyday for better livelihood. Every student has choice of career to make. Career is who you are and what you can still be able to do. In this book, choice of career is explained with clarity and guiding questions into a definite outcome that will save you from the effects of your unguided decisions due to corrupt environment,

Where To Download Engineering Made Easy

parents' wishes, peer groups, available institutions and detail of courses to study. As a student seeking guidance on choice of career, solemnly read through this book for timely and timeless treasure of good decision that will save and solve your generational issues. It also contains 96 successful career profiles. Happy reading!

This essential textbook presents the basics of dental statistics in an accessible way, combining explanation in non-technical language with key messages, practical examples, suggestions for further reading and exercises complete with detailed solutions. There is an emphasis on the principles and application of statistics without the use of algebra. The statistical material is strongly rooted in practical examples drawn from a wide range of journal articles representing both dental health care delivery and clinical dentistry. The perspective is international, with papers drawn from a variety of settings around the world. Many articles are recent and report contemporary developments in dental care. The intended audience includes dental students and practitioners, those engaged in dental research and other health care professionals. For students and tutors, it covers the undergraduate curriculum, and the exercises and solutions make it ideal for course use. For practitioners and researchers it provides the first principles of study design, accessing the dental literature, and the preparation and publication of original dental research.

Explore engineering as a career with this introduction for ages 12 to 16 The job of an engineer is to solve all sorts of complex challenges facing the world while improving our lives through creative, innovative ideas. This engineering book for teens gives you a look into what engineers do and how they drive society forward through math and science. From designing tablets and smartphones to reimagining the way we collect and store renewable energy, this engineering book for teens introduces you to the major engineering disciplines and their distinct specialties, famous engineers throughout history, and more. Engineering for Teens offers: Engineering fundamentals--Discover the four main branches of engineering and their different specialties. Inspired inventions--Get examples of the incredible things that engineers have created, like fuel cells and medicines. Inclusivity in engineering--Learn all about the diversity within the field of engineering. Discover the wonders of engineering and prepare yourself for a life of scientific discovery with this engineering book for teens.

Help your child be the top of the class with the best-selling home-study series from Carol Vorderman Let Carol Vorderman help your child succeed in Maths. Maths Made Easy is one of Carol Vorderman's series of workbooks packed with notes and tips to make learning about Maths easy and fun! Follow the exercises and activities with your child to strengthen their learning in school, then reward them with gold stars for their efforts. Each title contains a progress chart so your child can keep track of all the exercises they have completed and parents' notes explain what children need to know at each stage and what's being covered in the curriculum so you can support your child. This book contains practise for measures and money, finding locations, sorting shapes, and symmetry. Developed in consultation with leading educational experts to support curriculum learning, Maths Made Easy (previous ISBN 9781405363488) is a great way to improve your child's maths skills - "the more you practise, the better you'll be!" Carol Vorderman

Today, there are more than three parking spaces for every car in the United States. No one likes searching for a space, but in many areas, there is an oversupply, wasting valuable land, damaging the environment, and deterring development. Richard W. Willson argues that the problem stems from outdated minimum parking requirements. In this practical guide, he shows practitioners how to reform parking requirements in a way that supports planning goals and creates vibrant cities. Local planners and policymakers, traffic engineers, developers, and community members are actively seeking this information as they institute principles of Smart Growth. But making effective changes requires more than relying on national averages or copying information from neighboring communities. Instead, Willson shows how professionals can confidently create requirements based on local parking data, an understanding of future trends affecting parking use, and clear policy choices. After putting parking and parking requirements in context, the book offers an accessible tool kit to get started and repair outdated requirements. It looks in depth at parking requirements for multifamily developments, including income-restricted housing, workplaces, and mixed-use, transit-oriented development. Case studies for each type of parking illustrate what works, what doesn't, and how to overcome challenges. Willson also explores the process of codifying regulations and how to work with stakeholders to avoid political conflicts. With Parking Reform Made Easy, practitioners will learn, step-by-step, how to improve requirements. The result will be higher density, healthier, more energy-efficient, and livable communities. This book will be exceptionally useful for local and regional land use and transportation planners, transportation engineers, real estate developers, citizen activists, and students of transportation planning and urban policy.

This book, written by premier authors in the field of OCT intravascular imaging, covers the best practices for using OCT to provide high resolution cross-sectional viewing for atherosclerotic plaque assessment, stent strut coverage and apposition, assessment in stent restenosis evaluation, and PCI guide and optimization. Fully illustrated throughout in a handy, cath-lab side handbook supplemented by online movie clips, OCT Made Easy includes case studies, angiography, CT correlations, and simple techniques for getting the best image.

This highly illustrated book effectively simplifies the intricate principles of biomechanics for orthopaedic trainees.

This book constitutes an elementary introduction to rings and fields, in particular Galois rings and Galois fields, with regard to their application to the theory of quantum information, a field at the crossroads of quantum physics, discrete mathematics and informatics. The existing literature on rings and fields is primarily mathematical. There are a great number of excellent books on the theory of rings and fields written by and for mathematicians, but these can be difficult for physicists and chemists to access. This book offers an introduction to rings and fields with numerous examples. It contains an application to the construction of mutually unbiased bases of pivotal importance in quantum information. It is intended for graduate and undergraduate students and researchers in physics, mathematical physics and quantum chemistry (especially in the domains of advanced quantum mechanics, quantum optics, quantum information theory, classical and quantum computing, and computer engineering). Although the book is not written for mathematicians, given the large number of examples discussed, it may also be of interest to undergraduate students in mathematics. Contains numerous examples that accompany the text Includes an important chapter on mutually unbiased bases Helps physicists and theoretical chemists understand this area of mathematics

Made Easy Series is developed with an objective of meeting the requirement of books that cover syllabi of important core engineering subjects focussing completely on the manner in which concepts will be tested in examinations. Books in this series are designed in a question-and-answer format to cater to undergraduate students of all major technological universities and to equip them with the desired knowledge in a simple yet comprehensive manner. They explore all the important concepts of the syllabi with the help of solved questions and numerical problems of previous years' question papers of these universities. Apart

from being extremely student-friendly and lucid, the books in this series are rich in pedagogical features such as brief point-wise discussion of fundamental concepts, theoretical questions with answers, solved numerical problems, and objective questions and exercises for further practice (all taken from previous years' question papers) that aid students in preparing well for university examinations. Because of the fiercely competitive nature of the current academic scenario and the large number of books available for each topic, it is extremely difficult for students to spend too much time in an in-depth study of each book, especially during examinations when they are hard-pressed for time. Made Easy Series will empower students to prepare for university examinations in a systematic and thorough manner in a limited amount of time. The syllabi of the following universities have been covered in the book: UPTU, Anna Univ., JNTU, VTU, RTU, RGTU, WBUT, BPUT, PTU, Pune Univ., Mumbai Univ.

This book introduces Radio Frequency Propagation to a broad audience. The author blends theory and practice to bring readers up-to-date in key concepts, underlying principles and practical applications of wireless communications. The presentation is designed to be easily accessible, minimizing mathematics and maximizing visuals.

Tissue Engineering Made Easy provides concise, easy to understand, up-to-date information about the most important topics in tissue engineering. These include background and basic principles, clinical applications for a variety of organs (skin, nerves, eye, heart, lungs and bones), and the future of the field. The descriptions and explanations of each topic are such that those who have not had any exposure to the principles and practice of tissue engineering will be able to understand them, and the volume will serve as a source for self-teaching to get readers to a point where they can effectively engage with active researchers. Offers readers a truly introductory way to understand the concepts, challenges and the new trends in reconstructive medicine Features accessible language for students beginning their research careers, private practice physician collaborators, and residents just beginning their research rotation Addresses the specifics for a variety of organs/systems – nerves, skin, bone, cardiovascular, respiratory, ophthalmic Provides examples from clinical and everyday situations The tools and technique used in Statistical Process Control have been used around the world to monitor and measure process variation and allow real positive changes to be made. The majority of engineers and scientists have had some exposure to this important technique but in many cases this has been badly taught and they fail to see the usefulness of it properly applied. This book has been written with the authors 30 years experience in practical Statistical Process Control and is aimed squarely at practising engineers and scientists rather than statisticians and mathematicians. Practical Statistical Process Control takes a graphical approach using a software tool called Minitab. The author concentrates on each step of using the technique with explanations along the way of each decision point. Readers will find this guide both practical and useful, with copious screenshots of the software in use and clear precise explanations. The emphasis is on understanding the technique and being able to use it in real world applications. Key points: * Provides tools and techniques for practical business and process improvement. * Introduces screenshots and explanations for each step of SPC including the importance of assessing the measurement system and constructing control charts. * A worked example, using Minitab sample data with clear explanations of the variables and analyses. This book will be extremely useful to engineers and scientists who want to solve quality, process and manufacturing problems quickly and easily.

Are you struggling with structural analysis and looking for a book that could really help you? The search is over! This book shows you the efficient calculation of support reactions and internal force diagrams of statically determined systems. Instead of explaining all the theoretical basics, we delve right into reliably mastering exam-relevant tasks with the least possible computing effort. In addition to basics, like the optimal choice of a subsystem, other aspects such as creation of a positive learning environment are also covered in this book. Structural analysis is not a matter of talent. With the right know-how and enough practice, it can easily turn into your favorite subject.

Modeling Engineering Systems goes right to the heart of engineering, teaching you how to: understand and use the three basic types of engineering building blocks recognize the analogies that can be drawn between the fundamental elements of electrical, mechanical, fluid, and thermal systems develop math models for first- and higher-order systems using four fundamental methods analyze the models you develop perform frequency analysis and plot frequency responses Educated at the U.S. Coast Guard Academy and MIT, Jack W. Lewis is a registered professional engineer, his specialty is the design of automatic control and instrumental systems, especially as related to the marine industry. He is the author of numerous technical papers and articles, including national award-winning papers for the American Society of Naval Engineers (ASNE) and the Society of Naval Architects and Marine Engineers (SNAME). Lewis is a member of SNAME, ASNE, and the American Society of Mechanical Engineers (ASME). -understand and use the three basic types of engineering building blocks -recognize the analogies that can be drawn between the fundamental elements of electrical, mechanical, fluid, and thermal systems -develop math models for first- and higher-order systems using four fundamental methods

Excel VBA 365 Made Easy is a complete guide to mastering Excel VBA 365, for beginner to intermediate programmers. Authored by Dr. Liew, creator of the popular online Excel VBA Tutorial at excelvbatutor.com, this book is an excellent reference text for high school or college-level computer science courses. By the end of this book, you will gain a comprehensive understanding of basic Excel VBA 365 concepts and be able to create your own code from scratch. You will learn how to: 1. Write code for objects like Worksheet, Range, Cells and more using their methods and properties 2. Write macros to automate tasks 3. Program code for all the ActiveX controls available in the Developer environment 4. Create applications using the UserForm 5. Create objects and classes using the Class module Best of all, you will gain inspiration from a variety of interesting examples like a calculator, stock trading program, slot machine, Star Wars, and more. You may modify the examples easily to suit your needs.

Developing a program to train planning commissioners and zoning board members takes a lot of time and effort. This manual makes the process easier. It covers the basics of community planning, zoning, subdivision regulation, and ethics. With chapters organized in discrete modules, it's ideal for both self-study and classroom use. Narratives explain general planning principles. Exercises encourage users to think about the planning issues in their communities. And worksheets reinforce important concepts. A complementary training guide, Training Made Easy, is also available. Planning Made Easy is published as looseleaf pages in a three-ring notebook.

The rapid evolution of computer science, communication, and information technology has enabled the application of control techniques to systems beyond the possibilities of control theory just a decade ago. Critical infrastructures such as electricity, water, traffic and intermodal transport networks are now in the scope of control engineers. The sheer size of such large-scale systems requires the adoption of advanced distributed control approaches. Distributed model predictive control (MPC) is one of the promising control methodologies for control of such systems. This book provides a state-of-the-art overview of distributed MPC approaches, while at the same time making clear directions of research that deserve more attention. The core and rationale of 35 approaches are carefully explained. Moreover, detailed step-by-step algorithmic descriptions of each approach are provided. These features make the book a comprehensive guide both for those seeking an introduction to distributed MPC as well as for those who want to gain a deeper insight in the wide range of distributed MPC techniques available.

Dr K Chaudhry is First Author of Jaypee Brothers, Number One Medical Publishers in India. First book of Dr K Chaudhry, as also of Jaypee Brothers, was published during the year 1968. In addition, Dr K Chaudhry is Youtube Celebrity with fans in all Countries. He is Famous for his English Versions of Bollywood and Pakistani Songs. Patrick French's India A Portrait has three pages on Dr

K Chaudhry. His versatility shows up in his Horoscope software, Global Malls Yellow Pages, BMI Registered lyrics. Google DOCTORKC to view Abhishek Bachhan tweet, Patrich French interactions, and huge number of songs.

Thousands of students write the GATE Paper annually. The level of competition is fierce, owing to the increasing competition every year for a limited number of seats. If you are a serious aspirant, it is advisable to prepare for GATE with the right books. A major game-changer is the habit to practice and revise the concepts and this is why our GATE 2022 Chapter-wise Solved Papers are your best bet to be GATE ready! This book consists of GATE previous years' solved papers of last 30 years (1992-2021). Solved papers enable an aspirant to get acquainted with the exam pattern and the weightage of each topic and section. With the right effort and proper guidance, we're sure that you will be able to face GATE 2022 confidently. Features: 30 years' Solved papers - fully solved and updated Chapter-wise arrangement Comprehensive analysis of previous years' papers Thoroughly revised and updated

A leading scientist argues that we must consider deploying climate engineering technology to slow the pace of global warming. Climate engineering—which could slow the pace of global warming by injecting reflective particles into the upper atmosphere—has emerged in recent years as an extremely controversial technology. And for good reason: it carries unknown risks and it may undermine commitments to conserving energy. Some critics also view it as an immoral human breach of the natural world. The latter objection, David Keith argues in *A Scientist's Case for Climate Engineering*, is groundless; we have been using technology to alter our environment for years. But he agrees that there are large issues at stake. A leading scientist long concerned about climate change, Keith offers no naïve proposal for an easy fix to what is perhaps the most challenging question of our time; climate engineering is no silver bullet. But he argues that after decades during which very little progress has been made in reducing carbon emissions we must put this technology on the table and consider it responsibly. That doesn't mean we will deploy it, and it doesn't mean that we can abandon efforts to reduce greenhouse gas emissions. But we must understand fully what research needs to be done and how the technology might be designed and used. This book provides a clear and accessible overview of what the costs and risks might be, and how climate engineering might fit into a larger program for managing climate change.

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