Shortcuts In Mathematics By Akhilesh Khare

Electrical codes, standards, recommended practices and regulations can be complex subjects, yet are essential in both electrical design and life safety issues. This book demystifies their usage. It is a handbook of codes, standards, recommended practices and regulations in the United States involving electrical safety and design. Many engineers and electrical safety professionals may not be aware of all of those documents and their applicability. This book identifies those documents by category, allowing the ready and easy access to the relevant requirements. Because these documents may be updated on a regular basis, this book was written so that its information is not reliant on the latest edition or release of those codes, standards, recommended practices or regulations. No single document on the market today attempts to not only list the majority of relevant electrical design and safety codes, standards, recommended practices and regulations, but also explain their use and updating cycles. This book, one-stop-information-center for electrical engineers, electrical safety professionals, and designers, does. Covers the codes, standards, recommended practices and regulations in the United States involving electrical safety and design, providing a comprehensive reference for engineers and electrical safety professionals Documents are identified by category, enabling easy access to the relevant requirements Not version-specific; information is not reliant on the latest edition or release of the codes, standards, recommended practices or regulations

Operative Dictations in General and Vascular Surgery, Second Edition is intended to teach residents the principles of succinct and precise operative dictations for a wide spectrum of surgical procedures. Designed as a portable resource, the book provides typical dictations to guide the resident. Comprised of 226 procedures, this new edition comprises the majority of procedures commonly performed by general and vascular surgeons. For each procedure, a list of common indications is given. This list covers 95% of the situations in which a particular procedure will be used. A list of essential steps follows. These can be used to mentally rehearse the procedure before it is performed. The next heading, Note these technical variations, introduces a list that is intended to prompt the surgeon for particular things to note and dictate within the template. A list of possible complications that are typically associated with that particular surgical procedure follows. Finally, a template operative dictation is provided. Common opening and terminating sequences (for example, how to enter and close the abdomen) in all laparotomy dictations are included. The volume has two primary objectives. First, it is designed to serve as a source of model operative dictations that may be individualized and used as templates. Second, it is intended as an aide-memoir, giving the surgeon a short list of pertinent information about each procedure. Ample space is provided to allow each surgeon to add notes. By reviewing this introductory material before scrubbing on a procedure, the trainee surgeon will enter the operating room better prepared to participate actively and to learn as much as possible. At the end of training, this book, with the notes accumulated by the resident, will serve as an invaluable review resource analogous to the individualized notebooks many surgeons keep. Operative Dictations in General and Vascular Surgery, Second Edition is intended for practicing surgeons, who may modify each template to reflect their own individual practice. It also serves as a concise reminder of essential steps in those operations that may be only rarely performed.

A new look at an ancient religion. The Complete Idiot's Guide® to Hinduism, Second Edition, contains updated and expanded information on how the religion developed from its very fragmented origins, the basic Hindu beliefs, and the multiple Hindu deities, as well as the sociological aspects of the religion including ethics, sacraments, dietary habits, the caste system, and much more. ? Hinduism is the third-largest religion in the world, with over 765 million followers worldwide ? Updated information on the state of Hinduism today ? An exploration of the Hindu paths to enlightenment including karma yoga, bhakti yoga, jnana yoga, tantra and laya yoga ? Expanded information on the Hindu Reformation

Appealing to everyone from college-level majors to independent learners, The Art and Craft of Problem Solving, 3rd Edition introduces a problem-solving approach to mathematics, as opposed to the traditional exercises approach. The goal of The Art and Craft of Problem Solving is to develop strong problem solving skills, which it achieves by encouraging students to do math rather than just study it. Paul Zeitz draws upon his experience as a coach for the international mathematics Olympiad to give students an enhanced sense of mathematics and the ability to investigate and solve problems.

Benefits of solving these Test Series for JEE (Main) are: 15 Mock Test for JEE (Main)- Designed after a thorough research & include all typologies of Questions specified by the NTA. JEE (Main) Previous Years Papers: 2019 & 2020 Subjective Analysis to get on top of the test paper pattern Mind Maps of related subjects; Physics, Chemistry and Mathematics Oswaal Mnemonics to boost memory and confidence Easy to Scan QR Codes for online content

The thoroughly Revised and Updated 10th edition of Disha's BESTSELLER "UPSC IAS/ IPS Prelims Topic-wise Solved Papers 1 & 2 (1995-2019)" consists of past years solved papers of the General Studies Paper 1 & 2 distributed into 8 Units and 52 Topics. The book has been empowered with Unique Inputs/ Articles by one of the Most esteemed facuties for IAS - Mrunal on 'Understanding the IAS Exam & Strategies to Crack the Prelim & Main Exam', How to Attempt the IAS Main Exam Questions?, How to write Essays for GS IV Main exam, along with Solutions to 2017-19 exams. The book provides UNSOLVED Mains Papers from 2013-18, divided topic-wise. The book also provides List of Essays divided topic-wise from 1993-2018. The strength of the book lies in the Errorless DETAILED Solutions. The book is 100% useful for both the General Studies papers (1 and 2) of the Prelims/ CSAT.

The NCERT books are one of the most important resources for every class 10 student. The book 'Errorless NCERT Solutions with 100% Reasoning Class 10 Science' is exclusively written to provide best quality solutions for NCERT Science class 10. • The Unique Selling Point of this book lies in its quality of solutions which provides 100% Reasoning (which is missing in Most of the Books) and are Errorless. • A lot of solution provide Notes immediately after the Solutions which provides Important Tips, Shortcuts, Alternative Methods, Points to Remember etc.. • This book provides Quick Revision of the concepts involved along with Important formulas and definitions, in each chapter, which would act as a refresher. • This is followed by the detailed solutions (Question-by-Question) of all the questions/ exercises provided in the NCERT book. • The solutions have been designed in such a manner (Step-by-Step) that it would bring 100% Concept Clarity for the student. • The solutions are Complete (each and every question is solved), Inflow (exactly on the flow of questions in the NCERT book) and Errorless.

The scientific community has witnessed radical changes through its innovative approach and research in all engineering disciplines The Community has matured to develop and adopt latest tools and technologies that allow researches from multiple platforms, research laboratories,institute etc,across the globe,to work together The theme of the conference is broadly based on the disciplines,namely CSE IT,Electronics & Communication Engineering, Electrical Engineering

This book brings together, and integrates the three principal areas of environmental engineering water, air, and solid waste management. It introduces a unique approach by emphasizing the relationship between the principles observed in natural purification processes and those employed in engineered systems. First, the physical, chemical,

mathematical, and biological principles that define, measure and quantify environmental quality are described. Next, the processes by which nature assimilates waste material are discussed and the natural purification processes that form the basis of engineered systems are detailed. Finally, the engineering principles and practices involved in the design and operation of environmental engineering works are covered at length. Written in a lucid style and offering abundant illustrations and problems, the book provides a treatment of environmental engineering that can be understood by a wide range of readers.

The 'Adaptive Landscape' has been a central concept in population genetics and evolutionary biology since this powerful metaphor was first formulated in 1932. This volume brings together historians of science, philosophers, ecologists, and evolutionary biologists, to discuss the state of the art from several different perspectives.

Based on the authors' combined 35 years of experience in teaching, A Basic Course in Real Analysis introduces students to the aspects of real analysis in a friendly way. The authors offer insights into the way a typical mathematician works observing patterns, conducting experiments by means of looking at or creating examples, trying to understand the underlying principles, and coming up with guesses or conjectures and then proving them rigorously based on his or her explorations. With more than 100 pictures, the book creates interest in real analysis by encouraging students to think geometrically. Each difficult proof is prefaced by a strategy and explanation of how the strategy is translated into rigorous and precise proofs. The authors then explain the mystery and role of inequalities in analysis to train students to arrive at estimates that will be useful for proofs. They highlight the role of the least upper bound property of real numbers, which underlies all crucial results in real analysis. In addition, the book demonstrates analysis as a qualitative as well as quantitative study of functions, exposing students to arguments that fall under hard analysis. Although there are many books available on this subject, students often find it difficult to learn the essence of analysis on their own or after going through a course on real analysis. Written in a conversational tone, this book explains the hows and whys of real analysis and provides guidance that makes readers think at every stage.

This book constitutes the refereed proceedings of the International Conference on Architecture of Computing Systems, ARCS 2004, held in Augsburg, Germany, in March 2004. The 22 revised full papers presented together with the abstracts of two invited lectures were carefully reviewed and selected from 50 submissions. The papers are organized in topical sections on organic computing, peer-to-peer computing, reconfigurable hardware, hardware, wireless architectures and networking, and applications.

Get practical insights on the psychology of white-collar criminals—and how to outsmart them Understand how the psychologies of fraudsters and their victims interact as well as what makes auditors/investigators/regulators let down their guard. Learn about the psychology of fraud victims, including boards of directors and senior management, and what makes them want to believe fraudsters, and therefore making them particularly vulnerable to deception. Just as IT experts gave us computer forensics, we now have a uniquely qualified team immersed in psychology, sociology, psychiatry as well as accounting and auditing, introducing the emerging field of behavioral forensics to address the phenomenon of fraud. Ever wonder what makes a white-collar criminal tick? Why does she or he do what they do? For the first time ever, see the mind of the fraudster laid bare, including their sometimes twisted rationalizations; think like a crook to catch a crook! The A.B.C.'s of Behavioral Forensics takes you there, with expert advice from a diverse but highly specialized authoring team of professionals (three out of the four are Certified Fraud Examiners): a former accounting firm partner who has a PhD in psychology, a former FBI special agent who has been with investigative practices of two of the Big Four firms, an industrial psychiatrist who has worked closely with the C-level suite of large and small companies, and an accounting professor who has interviewed numerous convicted felons. Along with a fascinating exploration of what makes people fall for the common and not-so-common swindles, the book provides a sweeping characterization of the ecology of fraud using The A.B.C.'s of Behavioral Forensics paradigm: the bad Apple (rogue executive), the bad Bushel (groups that collude and behave like gangs), and the bad Crop (representing organization-wide or even societally-sanctioned cultures that are toxic and corrosive). The book will make you take a longer look when hiring new employees and offers a deeper more complex understanding of what happens in organizations and in their people. The A.B.C. model will also help those inside and outside organizations inoculate against fraud and make you reflect on instilling the core values of your organization among your people and create a culture of excellence and integrity that acts as a prophylactic against fraud. Ultimately, you will discover that, used wisely, behavioral methods trump solely economic incentives. With business fraud on the rise globally, The A.B.C.'s of Behavioral Forensics is the must-have book for investigators, auditors, the C-suite and risk management professionals, the boards of directors, regulators, and HR professionals. Examines the psychology of fraud in a practical way, relating it to aspects of fraud prevention, deterrence, detection, and remediation Helps you understand that trust violation—the essence of fraud—is a betrayal of behavioral assumptions about "trusted" people Explains how good people go bad and how otherwise honest people cross the line Underscores the importance of creating a culture of excellence and integrity that inoculates an organization from fraud risk (i.e., honest behavior pays, while dishonesty is frowned upon) Provides key takeaways on what to look for when hiring new employees and in your current employees, as well as creating and maintaining a culture of control consciousness Includes narrative accounts of interviews with convicted white-collar criminals, as well as interpretive insights and analysis of their rationalizations Furnishes ideas about how to enhance professional skepticism, how to resist fraudsters, how to see through their schemes, how to infuse internal controls with the people/behavioral element, and make them more effective in addressing behav

This book takes the reader on a journey through the world of college mathematics, focusing on some of the most important concepts and results in the theories of polynomials, linear algebra, real analysis, differential equations, coordinate geometry, trigonometry, elementary number theory, combinatorics, and probability. Preliminary material provides an overview of common methods of proof: argument by contradiction, mathematical induction, pigeonhole principle, ordered sets, and invariants. Each chapter systematically

presents a single subject within which problems are clustered in each section according to the specific topic. The exposition is driven by nearly 1300 problems and examples chosen from numerous sources from around the world; many original contributions come from the authors. The source, author, and historical background are cited whenever possible. Complete solutions to all problems are given at the end of the book. This second edition includes new sections on quad ratic polynomials, curves in the plane, quadratic fields, combinatorics of numbers, and graph theory, and added problems or theoretical expansion of sections on polynomials, matrices, abstract algebra, limits of sequences and functions, derivatives and their applications, Stokes' theorem, analytical geometry, combinatorial geometry, and counting strategies. Using the W.L. Putnam Mathematical Competition for undergraduates as an inspiring symbol to build an appropriate math background for graduate studies in pure or applied mathematics, the reader is eased into transitioning from problem-solving at the high school level to the university and beyond, that is, to mathematical research. This work may be used as a study guide for the Putnam exam, as a text for many different problem-solving courses, and as a source of problems for standard courses in undergraduate mathematics. Putnam and Beyond is organized for independent study by undergraduate and gradu ate students, as well as teachers and researchers in the physical sciences who wish to expand their mathematical horizons. This Book Covers A Wide Range Of Topics In Statistics With Conceptual Analysis, Mathematical Formulas And Adequate Details In Question-Answer Form. It Furnishes A Comprehensive Overview Of Statistics In A Lucid Manner. The Book Provides Ready-Made Material For All Inquisitive Minds To Help Them Prepare For Any Traditional Or Internal Grading System Examination, Competitions, Interviews, Viva-Voce And Applied Statistics Courses. One Will Not Have To Run From Pillar To Post For Guidance In Statistics. The Answers Are Self-Explanatory. For Objective Type Questions, At Many Places, The Answers Are Given With Proper Hints. Fill-In-The-Blanks Given In Each Chapter Will Enable The Readers To Revise Their Knowledge In A Short Span Of Time. An Adequate Number Of Multiple-Choice Questions Inculcate A Deep Understanding Of The Concepts. The Book Also Provides A Good Number Of Numerical Problems, Each Of Which Requires Fresh Thinking For Its Solution. It Will Also Facilitate The Teachers To A Great Extent In Teaching A Large Number Of Courses, As One Will Get A Plethora Of Matter At One Place About Any Topic In A Systematic And Logical Manner. The Book Can Also Serve As An Exhaustive Text.
How many, in a Mumbai room full of Hermes ties and finance whizkids, are Dalit? What if Mahesh Bhatt's son, David Headley's friend, had been a Muslim? Why is Delhi getting better as a city and Mumbai going downhill? When did the Congress first start shrinking its prime minister? When did it become clear that Narendra Modi would take over his party? Who are the HMTs? And what does an angry Arvind Kejriwal say about us? Raising such questions is the hallmark of Shekhar Gupta's National Interest, the most eagerly awaited news and current affairs column in Indian journalism. Informed by three decades and more of formidable reporting and a credibility that gives Gupta unrivalled access to decision makers in government, politics and business, the best of these columns in Anticipating India explain and interpret, provoke and predict change for more than a billion people. A riveting first draft of modern Indian history, Anticipating India interprets everything from the successes and failings of Atal Bihari Vajpayee and Manmohan Singh to the ascent of Rahul Gandhi, Narendra Modi and Arvind Kejriwal, from the forces that have deepened Indian federalism and constitutionalism to the public mood that keeps a check on excesses in the use of political power. Each chapter in Anticipating India, in its questioning of power, its use and abuse, carries within it ideas of India that challenge conventional wisdom, shatter stereotypes and, in the end, question our long-held assumptions of who we are as a nation and a people.
How Students Learn: Science in the Classroom builds on the discoveries detailed in the best-selling How People Learn. Now these findings are presented in a way that teachers can use immediately, to revitalize their work in the classroom for even greater effectiveness. Organized for utility, the book explores how the principles of learning can be applied in science at three levels: elementary, middle, and high school. Leading educators explain in detail how they developed successful curricula and teaching approaches, presenting strategies that serve as models for curriculum development and classroom instruction. Their recounting of personal teaching experiences lends strength and warmth to this volume. This book discusses how to build straightforward science experiments into true understanding of scientific principles. It also features illustrated suggestions for classroom activities.
• NEET Chapter-wise + Topic-wise Solved Papers PHYSICS is the thoroughly revised & updated 14th edition and it contains the past year papers of NEET 2019 to 1988 distributed in 28 Topics. • The Questions have been arranged from 2019 to 1988 such that the students encounter the latest questions first. Further each chapter has been further divided into 3-4 topics each. • The Topics have been arranged exactly in accordance to the NCERT books so as to make it 100% convenient to Class 11 & 12 students. • The fully solved CBSE Mains papers of 2011 & 2012 (the only Objective CBSE Mains paper held) have also been incorporated in the book topic-wise. • The book also contains NEET 2013 along with the Karnataka NEET 2013 paper. • The detailed solutions of all questions are provided at the end of each chapter to bring conceptual clarity. • The book contains around 1690+ MILESTONE PROBLEMS IN PHYSICS.
This book describes the recently-discovered artificially curved light beam known as the photonic hook. Self-bending of light, a long-time goal of optical scientists, was realized in 2007 with the Airy beam, followed by the first demonstration of the photonic hook by the authors of this book and their collaborators in 2015 and experimentally in 2019. The photonic hook has curvature less than the wavelength, along with other unique features described in this book that are not shared by Airy-like beams, and so deepens our understanding of light propagation. This book discusses the general principles of artificial near-field structured curved light and the full-wave simulations of the photonic hook along with their experimental confirmation. The book goes on to show how the photonic hook has implications for acoustic and surface plasmon waves and as well as

applications in nanoparticle manipulation.

A unique collection of competition problems from over twenty major national and international mathematical competitions for high school students. Written for trainers and participants of contests of all levels up to the highest level, this will appeal to high school teachers conducting a mathematics club who need a range of simple to complex problems and to those instructors wishing to pose a "problem of the week", thus bringing a creative atmosphere into the classrooms. Equally, this is a must-have for individuals interested in solving difficult and challenging problems. Each chapter starts with typical examples illustrating the central concepts and is followed by a number of carefully selected problems and their solutions. Most of the solutions are complete, but some merely point to the road leading to the final solution. In addition to being a valuable resource of mathematical problems and solution strategies, this is the most complete training book on the market.

This 2-Volume-Set, CCIS 0269-CCIS 0270, constitutes the refereed proceedings of the International Conference on Global Trends in Computing and Communication (CCIS 0269) and the International Conference on Global Trends in Information Systems and Software Applications (CCIS 0270), ObCom 2011, held in Vellore, India, in December 2011. The 173 full papers presented together with a keynote paper and invited papers were carefully reviewed and selected from 842 submissions. The conference addresses issues associated with computing, communication and information. Its aim is to increase exponentially the participants' awareness of the current and future direction in the domains and to create a platform between researchers, leading industry developers and end users to interrelate.

The Newnes Circuits Series provides designers with quick reference guides to various types of circuits, and is written by a professional technical writer. Each book comes with 250-300 ready-to-use designs, with schematics and explanations.

DATA MODELING AND DATABASE DESIGN presents a conceptually complete coverage of indispensable topics that each MIS student should learn if that student takes only one database course. Database design and data modeling encompass the minimal set of topics addressing the core competency of knowledge students should acquire in the database area. The text, rich examples, and figures work together to cover material with a depth and precision that is not available in more introductory database books. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

GET UP TO SPEED WITH FAST TRACK: U.S. History! Covering the most important material taught in high school American history class, this essential review book breaks need-to-know content into accessible, easily understood lessons. Inside this book, you'll find: • Clear, concise summaries of the most important events, people, and concepts in United States history • Maps, timelines, and charts for quick visual reference • Easy-to-follow content organization and illustrations With its friendly, straightforward approach and a clean, modern design crafted to appeal to visual learners, this guidebook is perfect for catching up in class or getting ahead on exam review. Topics covered in Fast Track: U.S. History include: • Native Americans • Colonial America • The Revolutionary War • Abolitionism and suffrage • The Civil War and Reconstruction • The Industrial Revolution • The Great Depression • World Wars I and II • The Cold War • Civil rights • Conservatism and the "New Right" • 9/11 and globalism ... and more!

This book features high-quality research papers presented at the 2nd International Conference on Computational Intelligence in Pattern Recognition (CIPR 2020), held at the Institute of Engineering and Management, Kolkata, West Bengal, India, on 4–5 January 2020. It includes practical development experiences in various areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

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