

Shortcuts In Mathematics By Akhilesh Khare

Advanced Vedic Mathematics
 My Best Mathematical and Logic Puzzles
 Mathematics in the Primary School
 Soft-Computing-Based Nonlinear Control Systems Design
 Skills in Mathematics - Play with Graphs for JEE Main and Advanced
 Child Development & Pedagogy for CTET & STET (Paper 1 & 2) with Past Questions 3rd Edition
 Putnam and Beyond
 Fundamentals of Physical Geography
 Fast Math: Learn the Secrets of Mental Math
 Shortcuts in Mathematics
 Proceedings of International Conference on Data Science and Applications
 The Seven Pillars of Statistical Wisdom
 Mathematics Shortcuts
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 Advanced Algebra
 Advanced Machine Learning Technologies and Applications
 Programming Challenges

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Advanced Vedic Mathematics Arihant Publications India limited

The noted expert selects 70 of his favorite "short" puzzles, including such mind-bogglers as The Returning Explorer, The Mutilated Chessboard, Scrambled Box Tops, and dozens more involving logic and basic math. Solutions included.

My Best Mathematical and Logic Puzzles CreateSpace

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.

Mathematics in the Primary School Springer Nature

More info and preview on <https://benoitseron.wordpress.com/>This book is a thorough study guide on how to become an exceptional student and specializes in the study of Physics and Mathematics. It can be used for high school students who hate Physics and Maths and want to get it over with, up to graduate students applying for PhDs. The book covers every single point of student life, from the basics of study to advanced techniques for desperate exam situations. This book takes a holistic approach to your study. That is, not only the proper, special study techniques of Physics and Maths are discussed, but also every other element of student life. To name a few: procrastination, sleep, habits, exam preparation, group works, projects, presentations, scientific writing, and, importantly, a vast section dedicated to your career choices. It ranges from which university to choose, to the purpose of your career, and where you can find meaning and thence happiness. This book aims to give you all the advice possible to master Physics and Maths and score excellent marks, whether in high school or at university. Benoît Seron studied Applied Mathematics at Cambridge University. Before that, he studied five years in Belgium as a Theoretical Physicist, with the best grades of his class every year. He is now a PhD student at the University of Bruxelles.

Soft-Computing-Based Nonlinear Control Systems Design CRB Publishing

"Physical geography deals with the spatial and temporal characteristics and relationships of all phenomena within the physical environment of the earth. A systematic study of physical geography is of immense help in understanding the numerous environmental challenges of the contemporary period. Earth is a place of great physical and cultural diversity, yet people know little about it. The book is aimed to explain the spatial dimensions of the earth's natural systems and their processes. The chapters of this thoroughly revised and updated third edition of the bestselling introductory reader have been organised in a logical sequence well suited to the curriculum of established physical geography courses. The text includes many special features that are intended to enhance and clarify students' understanding and mastery of the material. Throughout, the scientific ideas and processes are explained in a simple manner supported by a range of illustrative material including maps, diagrams and photographs. The book will be an essential resource for students and teachers, and for anyone wishes to acquire more knowledge about the physical aspects and the processes responsible for various orders of the earth."

Skills in Mathematics - Play with Graphs for JEE Main and Advanced W. W. Norton &

Company

An up-to-date account of the interplay between optimization and machine learning, accessible to students and researchers in both communities. The interplay between optimization and machine learning is one of the most important developments in modern computational science. Optimization formulations and methods are proving to be vital in designing algorithms to extract essential knowledge from huge volumes of data. Machine learning, however, is not simply a consumer of optimization technology but a rapidly evolving field that is itself generating new optimization ideas. This book captures the state of the art of the interaction between optimization and machine learning in a way that is accessible to researchers in both fields. Optimization approaches have enjoyed prominence in machine learning because of their wide applicability and attractive theoretical properties. The increasing complexity, size, and variety of today's machine learning models call for the reassessment of existing assumptions. This book starts the process of reassessment. It describes the resurgence in novel contexts of established frameworks such as first-order methods, stochastic approximations, convex relaxations, interior-point methods, and proximal methods. It also devotes attention to newer themes such as regularized optimization, robust optimization, gradient and subgradient methods, splitting techniques, and second-order methods. Many of these techniques draw inspiration from other fields, including operations research, theoretical computer science, and subfields of optimization. The book will enrich the ongoing cross-fertilization between the machine learning community and these other fields, and within the broader optimization community.

Child Development & Pedagogy for CTET & STET (Paper 1 & 2) with Past Questions 3rd Edition American Mathematical Soc.

Economic foundations -- Managerial economics and decision making -- Demand and supply -- Measuring and using demand -- Market structure and managerial decisions -- Production and costs -- Perfect competition -- Monopoly and monopolistic competition -- Cartels and oligopoly -- Game theory and oligopoly -- A manager's guide to antitrust policy -- Managerial decisions -- Advanced pricing decisions -- Decisions about vertical integration and distribution -- Decisions about production, products, and location -- Marketing decisions : advertising and promotion -- Business decisions under uncertainty -- Managerial decisions about information -- Using present value to make multiperiod managerial decisions -- Answer key to chapters -- Answer key to calculus appendix

Putnam and Beyond IGI Global

There are many distinct pleasures associated with computer programming. Craftsmanship has its quiet rewards, the satisfaction that comes from building a useful object and making it work. Excitement arrives with the flash of insight that cracks a previously intractable problem. The spiritual quest for elegance can turn the hacker into an artist. There are pleasures in parsimony, in squeezing the last drop of performance out of clever algorithms and tight coding. The games, puzzles, and challenges of problems from international programming competitions are a great way to experience these pleasures while improving your algorithmic and coding skills. This book contains over 100 problems that have appeared in previous programming contests, along with discussions of the theory and ideas necessary to attack them. Instant online grading for all of these problems is available from two WWW robot judging sites. Combining this book with a judge gives an exciting new way to challenge and improve your programming skills. This book can be used for self-study, for teaching innovative courses in algorithms and programming, and in training for international competition. The problems in this book have been selected from over 1,000 programming problems at the Universidad de Valladolid online judge. The judge has ruled on well over one million submissions from 27,000 registered users around the world to date. We have taken only the best of the best, the most fun, exciting, and interesting problems available.

Fundamentals of Physical Geography Lulu.com

"Geometry Of Conics deals with the properties of conics (plane curves of second degree) that can be

formulated and proved using only elementary geometry. Starting with the well-known optical properties of conics, this book moves to less trivial results, both classical and contemporary. It demonstrates the advantage of purely geometric methods of studying conics."--Publisher's website.

Fast Math: Learn the Secrets of Mental Math Springer Nature

National Curriculum guidelines emphasise knowledge, understanding and skills. The author, an internationally recognised authority, provides teachers with a clear explanation of these principles, and explains the relation between understanding and skills, and describes their application to the teaching of mathematics. The book contains numerous activities to show how mathematics can be learnt in the primary classroom with understanding and enjoyment, including: * formation of mathematical concepts * construction of knowledge * contents and structure of primary mathematics

Shortcuts in Mathematics Lulu.com

Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician, whether pure or applied, aspiring or established. Advanced Algebra includes chapters on modern algebra which treat various topics in commutative and noncommutative algebra and provide introductions to the theory of associative algebras, homological algebras, algebraic number theory, and algebraic geometry. Many examples and hundreds of problems are included, along with hints or complete solutions for most of the problems. Together the two books give the reader a global view of algebra and its role in mathematics as a whole.

Proceedings of International Conference on Data Science and Applications Springer

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 quadratic 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 graduate students, as well as teachers and researchers in the physical sciences who wish to expand their mathematical horizons.

The Seven Pillars of Statistical Wisdom Springer Nature

The magic wand of Vedic Mathematics that makes complex problems simple! Vedic Mathematics is an ancient technique consisting of sixteen sutras and sixteen sub-sutras. These sutras are not only important in dealing with simple arithmetic and algebraic concepts but are equally good in solving complex problems of higher algebra, trigonometry, calculus and co-ordinate geometry. In this book, renowned mathematician Rajesh Kumar Thakur lays out the unique Vedic sutras and explains their applicability in an easy-to-understand manner. Competitive examinations today test candidates on their aptitude in algebra, arithmetic, geometry and trigonometry—all of which this book helps to hone. It will make complex problems appear simple—be it partial fraction, integration by parts or differentiation—you will be able to tackle them all easily! Read this book and learn how to solve difficult maths problems in less than 30 seconds!

Mathematics Shortcuts CreateSpace

Useful for School students, teachers, and professionals and a must for those appearing for competitive exams like UPSC, MBA, MCA, GMAT, GRE, CSAT, etc. □After reading this book, solving $5378942639 \div 8120594263$, finding the square of 99975, the cube root of 704969 or calculating any day from 500 years would be child's play

Skills in Mathematics - Coordinate Geometry for JEE Main and Advanced Harvard University Press

What gives statistics its unity as a science? Stephen Stigler sets forth the seven foundational ideas of statistics—a scientific discipline related to but distinct from mathematics and computer science. Even the most basic idea—aggregation, exemplified by averaging—is counterintuitive. It allows one to gain information by discarding information, namely, the individuality of the observations. Stigler's second pillar, information measurement, challenges the importance of "big data" by noting that observations are not all equally important: the amount of information in a data set is often proportional to only the square root of the number of observations, not the absolute number. The third idea is likelihood, the calibration of inferences with the use of probability. Intercomparison is the principle that statistical comparisons do not need to be made with respect to an external standard. The fifth pillar is regression, both a paradox (tall parents on average produce shorter children; tall children on average have shorter parents) and the basis of inference, including Bayesian inference and causal reasoning. The sixth concept captures the importance of experimental design—for example, by recognizing the gains to be had from a combinatorial approach with rigorous randomization. The seventh idea is the residual: the notion that a complicated phenomenon can be simplified by subtracting the effect of known causes, leaving a residual phenomenon that can be explained more easily. The Seven Pillars of Statistical Wisdom presents an original, unified account of statistical science that will fascinate the interested layperson and engage the professional statistician.

Related with Shortcuts In Mathematics By Akhilesh Khare:

- What Is The Official Language Of Algeria : [click here](#)

Mathematics From the Birth of Numbers Rupa Publications India Pvt Limited

This book presents the refereed proceedings of the 5th International Conference on Advanced Machine Learning Technologies and Applications (AMLTA 2020), held at Manipal University Jaipur, India, on February 13 - 15, 2020, and organized in collaboration with the Scientific Research Group in Egypt (SRGE). The papers cover current research in machine learning, big data, Internet of Things, biomedical engineering, fuzzy logic and security, as well as intelligence swarms and optimization.

Problem-Solving Strategies Routledge

ShortCuts In Mathematics What makes it "World's first family book of Mathematics" ? It's a family book to be read and used by the whole family. It's a family tonic of Mathematics anyone in the family can have it. It is for the Daughter / Son, Mother / Father and Grand Mother / Father as well ! It's world's first commercial blockbuster of Mathematics full of comedy, emotion and drama. It will make you laugh, think and wonder as well. It's a perfect personal financial planner that helps you make better future plans in terms of money. The grand Mother / Father will appreciate it as it tells the importance of saving money and proves it Mathematically. It's a loving gift to your parent, It's favourite to them because it helps them calculate the growth of their hard-earned money in easy and simple steps. It's a holy book of short cuts for modern generation. It offers calendar for double centuries, know day for any date instantly, much faster than your mobile. It's the most up-to-date book of short cuts for super fast calculation. The world's first complete infotainment family package in Mathematics with short cuts, Secrets, Story, Drama, Motivation, Financial Planner and Calendar as well. A valuable asset for Numerical Ability / Quantitative Aptitude Test of GAMT / CAT Exams. The secret ideas of quick calculation revealed. It's amazing to know the secrets of school days Mathematics. The book is written in story / conversation form and is useful for all. A story of two neighbours. One is Mathematician and the other is non-Mathematician. Traditional methods do not help in competitive exams so they want to make ShortCuts In Mathematics. The meaningful conversation between them is presented in story form. It tells a story, Motivates for success and Teaches Mathematics in interesting ways. It's a complete infotainment family package in Mathematics. Contents: 1. As and So 2. Dream Multiplication 3. Divisibility Tests 4. The Magical 9 5. Squares 6. Secret of Square root Method 7. Short cuts in LCM and HCF 8. Multiplying Your Money 9. Financial Planning 10. Interval Crunchy Snacks 11. Change and Restoration: All In One Ideas. 12. Arithmetic Progression 13. Binomial Theorem 14. Remainder and it's Uses 15. Short cuts in Division 16. Divisibility Secrets 17. Triplets 18. The 9 19. Magic Squares 20. The Team 11 21. Surds and Indices 22. Quadratic Equation 23. Fractions 24. Calendar for Double Centuries 25. Dream Division 26. Recurring Decimal 27. Units and Index 28. Roots 29. Multiplication II 30. Conclusion

Calculate Freely Cengage Learning

A critical part of ensuring that systems are advancing alongside technology without complications is problem solving. Practical applications of problem-solving theories can model conflict and cooperation and aid in creating solutions to real-world problems. **Soft-Computing-Based Nonlinear Control Systems Design** is a critical scholarly publication that examines the practical applications of control theory and its applications in problem solving to fields including economics, environmental management, and financial modelling. Featuring a wide range of topics, such as fuzzy logic, nature-inspired algorithms, and cloud computing, this book is geared toward academicians, researchers, and students seeking relevant research on control theory and its practical applications.

Introduction to General Topology S. Chand Publishing

• 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.

Ordinary and Partial Differential Equations Springer Science & Business Media

The new edition of the book "Child Development & Pedagogy for CTET & STET" has been updated with past CTET papers upto 2016 (September). Further some past papers of various State TETs have also been added. The book provides an exclusive treatment to the subject with special emphasis upon Child Development, Inclusive Education, Learning and the Pedagogical Issues. The book has been divided into 10 chapters. For each chapter an exhaustive theory has been provided which covers the complete syllabus as prescribed by the CBSE/ NCERT/ NCF 2005. This is followed by 2 set of exercises. The exercise 1 contains a set of MCQs from the PREVIOUS YEAR Question Papers of CTET and various STET's. The exercise 2, "TEST YOURSELF" provides carefully selected MCQs for practice. The book is a must for all the candidates appearing in the Paper 1 and 2 of the CTET and all State TETs.

How to Become a Human Calculator Springer Nature

Think Fast with Vedic Math Secrets and Mental Calculation Tricks! When you read Fast Math, you'll discover Vedic Math Techniques for mastering basic functions: Addition Subtraction Multiplication Division and so much more! With this fascinating guide, you can quickly and easily determine the square roots of perfect square numbers - and perform many other feats of mental gymnastics. These Vedic secrets mean you don't have to memorize mathematical facts anymore. By grasping the inner workings of math structures, you can make sense of all kinds of numbers - without a calculator or a computer! The written addition most of us learn in school relies on simple and slow systems like "carry the 1" to get answers. There is an alternative - Vedic math moves at the speed of thought. Instead of summing columns and moving from right to left, Vedic math starts on the left. Add the largest numbers in your head, remember this figure, sum the smaller numbers - and then just total the figures in your head! By holding numbers in your head while calculating others, you strengthen your working/short-term memory. This mental sharpness pays off in all parts of your life - from remembering names to articulating your thoughts more clearly.