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Metric Spaces of Non-Positive Curvature - Martin R. Bridson 2013-03-09
A description of the global properties of simply-connected spaces that are non-positively curved in the sense of A. D. Alexandrov, and the structure of groups which act on such spaces by isometries. The theory of these objects is developed in a manner accessible to anyone familiar with the rudiments of topology and group theory: non-trivial theorems are proved by concatenating elementary geometric arguments, and many examples are given. Part I provides an introduction to the geometry of geodesic spaces, while Part II develops the basic theory of spaces with upper curvature bounds. More specialized topics, such as complexes of groups, are covered in Part III.

APC CBSE Learning Mathematics - Class 9 - Avichal Publishing Company - M.L. Aggarwal
Learning Mathematics - Class 9 has been written by Mr. M.L. Aggarwal (Former Head of P.G. Department of Mathematics, D.A.V. College, Jalandhar) in accordance with the latest term-wise Syllabus and Guidelines issued by the CBSE on Comprehensive and Continuous Evaluation. The subject matter contained in this book has been explained in a simple language and includes many examples from real life situations. Carefully selected examples consist of detailed step-by-step solutions so that students get prepared to tackle all the problems given in the exercises. Questions in the form of Fill in the Blanks, True/False Statements and Multiple Choice Questions have been given under the heading 'Mental Maths'. In addition to normal questions, some 'Higher Order Thinking Skills (HOTS)' questions have been given to enhance the analytical thinking of the students. A 'Chapter Test' has been put in the end of each chapter which serves as the brief revision of the entire chapter. Term-wise Model Question Papers for Formative and Summative Assessments have been given at proper places.

First Finders - Fel Long 2021-08-19
A young man finds himself washed ashore on a peculiar island with even more peculiar inhabitants. His memory is hazy and everyone seems to want him for one reason or another. While it's bad enough how they say that he belongs to them, it's worse that so many of their mouths water when they look at him. How is he to survive?

A Plan That Actually Works - Anagh Prasad 2020-07-13
Written by a former All India Topper, this book has been touted by several iconic IITians as the most effective book on JEE planning ever written! Anagh argues that most IITians are neither born-geniuses nor unusually intense work-machines; they are smart planners instead.He takes you behind-the-scenes to reveal how smart planning works for JEE and lays out a clear framework for goal-oriented thinking. The step by step approach outlined across 11 chapters covers everything from daily routine to efficient practice to long term motivation, all explained through real life examples and presented with time-tested proofs. It talks about achieving one's goals while not missing out on a balanced life and questions people's deepest beliefs about achieving a large and meaningful goal like IIT-JEE. After finishing the book, readers will take away not just a concrete plan to prepare for JEE, but in the words of an early reviewer, a "life-altering" change in perspective towards success. "Edifying and thought-provoking! Reading this book will help you succeed not only in JEE but also in life." - Chitraang Murdia, AIR-1 in JEE Adv, 2014 "Covers a lot of important topics and explains goal setting well" - Aman Bansal, AIR-1 in JEE Adv, 2016 "Develops a holistic strategy to ace the JEE" - Ananye Agarwal, AIR-3 in JEE Adv, 2017 "Informative and Inspirational! It unravels the inner workings of a topper's mind" - Amey Gupta, AIR-8 in JEE Adv, 2014 "It will enable students to follow tested winning strategies rather than reinvent the wheel" - Kartikeya Gupta, AIR-4 in JEE Adv, 2013 "It iterates on the timeless wisdom of BhagvadGita to excel not only in JEE but any goal in life" - Vishwajeet Agarwal, AIR-5 in JEE Main, 2017. More about the book can be found out at www.thejeeproject.com

Text Book Of Trigonometry - A.K. Sharma 2004
This book Text Book of Trigonometry has been specially written to meet the requirement of Degree and Honours students of various Universities. The subject matter of this book has been discussed in such a simple way that the students find no difficulty to understand. Each chapter of this book contains complete theory and large number of solved example. Contents: Complex Numbers, Exponential, Trigonometric and Hyperbolic Functions of a Complex Variable (Separation into Real and Imaginary Parts), Logarithms of Complex Numbers, Inverse Circular and Hyperbolic Functions of Complex Numbers, Expansion of Some Trigonometrical Functions, Geogory s Series and Trigonometrical Expansions, Summation of Trigonometrical Series.

Modern Optimization Methods for Science, Engineering and Technology - G. R. Sinha 2019-11-20
This book reviews the fundamentals, background and theoretical concepts of optimization principles in a comprehensive manner along with their potential applications and implementation strategies. The book will be useful for a wide spectrum of target readers such as research scholars, academics and industry professionals.

Applied Mechanics Reviews - 1965

APC Learning Mathematics - Class 8 (CBSE) - Avichal Publishing Company - M.L. Aggarwal
Learning Mathematics - Class 8 has been written by Prof. M.L. Aggarwal in accordance with the latest syllabus of the NCERT and Guidelines issued by the CBSE on Comprehensive and Continuous Evaluation (CCE). The subject matter has been explained in a simple language and includes many examples from real life situations. Questions in the form of Fill in the Blanks, True/False statements and Multiple Choice Questions have been given under the heading 'Mental Maths'. Some Value Based Questions have also been included to impart values among students. In addition to normal questions, some Higher Order Thinking Skills (HOTS) questions have been given to enhance the analytical thinking of the students. Each chapter is followed by a Summary which recapitulates the new terms, concepts and results.

Problems in Calculus of One Variable - I. A. Maron 1998-02-01

The Willpower Instinct - Kelly McGonigal 2013-12-31
Based on Stanford University psychologist Kelly McGonigal's wildly popular course "The Science of Willpower," The Willpower Instinct is the first book to explain the science of self-control and how it can be harnessed to improve our health, happiness, and productivity. Informed by the latest research and combining cutting-edge insights from psychology, economics, neuroscience, and medicine, The Willpower Instinct explains exactly what willpower is, how it works, and why it matters. For example, readers will learn: • Willpower is a mind-body response, not a virtue. It is a biological function that can be improved through mindfulness, exercise, nutrition, and sleep. • Willpower is not an unlimited resource. Too much self-control can actually be bad for your health. • Temptation and stress hijack the brain's systems of self-control, but the brain can be trained for greater willpower • Guilt and shame over your setbacks lead to giving in again, but self-forgiveness and self-compassion boost self-control. • Giving up control is sometimes the only way to gain self-control. • Willpower failures are contagious—you can catch the desire to overspend or overeat from your friends—but you can also catch self-control from the right role models. In the groundbreaking tradition of Getting Things Done, The Willpower Instinct combines life-changing prescriptive advice and complementary exercises to help readers with goals ranging from losing weight to more patient parenting, less procrastination, better health, and greater productivity at work.

Foundation Course for NEET (Part 2): Chemistry Class 9 - Lakhmir

Singh & Manjit Kaur
Our NEET Foundation series is sharply focused for the NEET aspirants. Most of the students make a career choice in the middle school and, therefore, choose their stream informally in secondary and formally in senior secondary schooling, accordingly. If you have decided to make a career in the medical profession, you need not look any further! Adopt this series for Class 9 and 10 today.

CBSE MATHEMATICS FOR CLASS XI - Khattar Dinesh
Strictly as per the new CBSE course structure and NCERT guidelines, this thoroughly revised and updated textbook is designed for class XI of senior secondary schools (under the 10 + 2 pattern of education). The text is presented in a logical manner. It identifies your problem areas and helps you to solve them. Every effort has been made to make the contents as simple as possible so that the beginners will grasp the fundamental concepts easily. KEY FEATURES : Large number of solved examples to understand the subject. Categorization of problems under: Level of Difficulty A (Cover the needs of the students preparing for CBSE exams) Level of Difficulty B (Guide the students for engineering entrance examinations). 'Learning Objectives' at the beginning of each chapter to enable the students to focus their study. Problem Solving Trick(s) to enhance the problem solving skills. Besides this, each chapter is followed by a Chapter Test to test problem solving skills. Working hints to a large number of problems are given at the end of each and every exercise. In a nut shell, this book will help the students score high marks in CBSE, and at the same time build a strong foundation for success in any competitive examination. Contents: CONTENTS Preface Syllabus Chapter 1 Sets Chapter 2 Relations and Functions Chapter 3 Trigonometric Functions Chapter 4 Principle of Mathematical Induction Chapter 5 Complex Numbers and Quadratic Equations Chapter 6 Linear Inequations Chapter 7 Permutations and Combinations Chapter 8 Binomial Theorem Chapter 9 Sequences and Series Chapter 10 Straight Line Chapter 11 Conic Sections Chapter 12 Introduction to Three-Dimensional Geometry Chapter 13 Limits and Derivatives Chapter 14 Mathematical Reasoning Chapter 15 Statistics: Measures of Dispersion Chapter 16 Probability

Parenting Matters - National Academies of Sciences, Engineering, and Medicine 2016-11-21
Decades of research have demonstrated that the parent-child dyad and the environment of the familyâ€"which includes all primary caregiversâ€"are at the foundation of children's well- being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. Parenting Matters identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

Basic Theory - Anatoly Kochubei 2019-02-19
This multi-volume handbook is the most up-to-date and comprehensive reference work in the field of fractional calculus and its numerous applications. This first volume collects authoritative chapters covering the mathematical theory of fractional calculus, including fractional-order operators, integral transforms and equations, special functions, calculus

of variations, and probabilistic and other aspects.

Biophysics - William Bialek 2012-12-17
Interactions between the fields of physics and biology reach back over a century, and some of the most significant developments in biology--from the discovery of DNA's structure to imaging of the human brain--have involved collaboration across this disciplinary boundary. For a new generation of physicists, the phenomena of life pose exciting challenges to physics itself, and biophysics has emerged as an important subfield of this discipline. Here, William Bialek provides the first graduate-level introduction to biophysics aimed at physics students. Bialek begins by exploring how photon counting in vision offers important lessons about the opportunities for quantitative, physics-style experiments on diverse biological phenomena. He draws from these lessons three general physical principles--the importance of noise, the need to understand the extraordinary performance of living systems without appealing to finely tuned parameters, and the critical role of the representation and flow of information in the business of life. Bialek then applies these principles to a broad range of phenomena, including the control of gene expression, perception and memory, protein folding, the mechanics of the inner ear, the dynamics of biochemical reactions, and pattern formation in developing embryos. Featuring numerous problems and exercises throughout, Biophysics emphasizes the unifying power of abstract physical principles to motivate new and novel experiments on biological systems. Covers a range of biological phenomena from the physicist's perspective Features 200 problems Draws on statistical mechanics, quantum mechanics, and related mathematical concepts Includes an annotated bibliography and detailed appendixes Instructor's manual (available only to teachers)

Numerical Chemistry - PRATESH BAHADUR 1994

New Mathematics Today book 8 - ANUBHUTI GANGAL
New Mathematics Today, a thoroughly revised series for KG to Class 8, has been designed as per the requirements of the latest curriculum. The content of this series is designed to reach all learners in the classroom irrespective of their skill levels or learning capabilities.

Handbook of Vegetables and Vegetable Processing - Muhammad Siddiq 2018-02-23
Handbook of Vegetables and Vegetable Processing, Second Edition is the most comprehensive guide on vegetable technology for processors, producers, and users of vegetables in food manufacturing.This complete handbook contains 42 chapters across two volumes, contributed by field experts from across the world. It provides contemporary information that brings together current knowledge and practices in the value-chain of vegetables from production through consumption. The book is unique in the sense that it includes coverage of production and postharvest technologies, innovative processing technologies, packaging, and quality management. Handbook of Vegetables and Vegetable Processing, Second Edition covers recent developments in the areas of vegetable breeding and production, postharvest physiology and storage, packaging and shelf life extension, and traditional and novel processing technologies (high-pressure processing, pulse-electric field, membrane separation, and ohmic heating). It also offers in-depth coverage of processing, packaging, and the nutritional quality of vegetables as well as information on a broader spectrum of vegetable production and processing science and technology. Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives, and textured vegetable proteins This important book will appeal to anyone studying or involved in food technology, food science, food packaging, applied nutrition, biosystems and agricultural engineering, biotechnology, horticulture, food biochemistry, plant biology, and postharvest physiology.

Reviews in Numerical Analysis, 1980-86 - 1987
These five volumes bring together a wealth of bibliographic information in the area of numerical analysis. Containing over 17,600 reviews of articles, books, and conference proceedings, these volumes represent all the numerical analysis entries that appeared in Mathematical Reviews between 1980 and 1986. Author and key indexes appear at the end of volume 5.

Complete Mathematics - Tmh 2007

Fundamentals of Reinforced Concrete - Sinha N.C. & Roy S.K. 2007
This book on Reinforced Concrete has been comprehensively revised with a view to make it more suitable for the updated syllabus of various Technical Institutes and Engineering Colleges of different Universities.

HIGHER ALGEBRA - Hall & Knight 2019-04-15
The Classic Texts Series is the only of its kind selection of classic pieces of work that started off as bestseller and continues to be the bestseller even today. These classic texts have been designed so as to work as elementary textbooks which play a crucial role in building the concepts from scratch as in-depth knowledge of concepts is necessary for students preparing for various entrance exams.The present book on Higher Algebrapresents all the elements of Higher Algebra in a single book meant to work as textbook for the students beginning their preparation of the varied aspects covered under Higher Algebra. The present book has been divided into 35 chapters namely Ratio, Proportion, Variation, Arithmetical Progression, Geometrical Progression, Harmonical Progression Theorems Connected with The Progression, Scales of Notation, Surds & Imaginary Quantities, The Theory of Quadratic Equations, Miscellaneous Equations, Permutations & Combinations, Mathematical Induction, Binomial Theorem Positive Integral Index, Binomial Theorem, Any Index, Multinational Theorem, Logarithms, Exponential & Logarithmic Series, Interest & Annuities, Inequalities, Limiting Values & Vanishing Fractions, Convergency&Divergency of Series, Undetermined Coefficients, Partial Fractions, Recurring Series, Continued Fractions, Recurring Series, Continued Fractions, Indeterminate Equations of the First Degree, Recurring Continued Fractions, Indeterminate Equations of the Second Degree, Summation of Series, Theory of Numbers, The General Theory of Continued Fractions, Probability, Determinants, Miscellaneous Theorems & Examples and Theory of Equations, each subdivided into number of topics. The first few chapters in the book have been devoted to a fuller discussion of Ratio, Proportions, Variation and the Progressions. Both the theoretical text as well as examples have been treated minutely which will help in better understanding of the concepts covered in the book. Theoretical explanation of the concepts in points has been provided at the beginning of each chapter. At the end of each chapter, unsolved practice exercises have been provided to help aspirants revise the concepts discussed in the chapter. At the end of chapterwise study, miscellaneous examples have also been given along with answers and solutions to the unsolved examples covered in each chapter. All the relevant theorems covered under the syllabi of Higher Algebra have also been covered in the detail in this book.As the book covers the whole syllabi of Higher Algebra in detail along with ample number of solved examples, it for sure will help the students perfect the varied concepts covered under the Higher Algebra section.

APC Learning Mathematics - Class 7 (CBSE) - Avichal Publishing Company - M.L. Aggarwal
Learning Mathematics - Class 7 has been written by Prof. M.L. Aggarwal in accordance with the latest syllabus of the NCERT and Guidelines issued by the CBSE on Comprehensive and Continuous Evaluation (CCE). The subject matter has been explained in a simple language and includes many examples from real life situations. Questions in the form of Fill in the Blanks, True/False statements and Multiple Choice Questions have been given under the heading 'Mental Maths'. Some Value Based Questions have also been included to impart values among students. In addition to normal questions, some Higher Order Thinking Skills (HOTS) questions have been given to enhance the analytical thinking of the students. Each chapter is followed by a Summary which recapitulates the new terms, concepts and results.

Transforming Learning with Meaningful Technologies - Maren Scheffel 2019-09-09
This book constitutes the proceedings of the 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, held in Delft, The Netherlands, in September 2019. The 41 research papers and 50 demo and poster papers presented in this volume were carefully reviewed and selected from 149 submissions. The contributions reflect the debate around the role of and challenges for cutting-edge 21st century meaningful technologies and advances such as artificial intelligence and robots, augmented reality and ubiquitous computing technologies and at the same time connecting them to different pedagogical approaches, types of learning settings, and application domains that can benefit from such technologies.

Indian Science Abstracts - 1999-11

Mathematical Constants II - Steven R. Finch 2018-12-06

Famous mathematical constants include the ratio of circular circumference to diameter, π = 3.14 ..., and the natural logarithm base, e = 2.718 .... Students and professionals can often name a few others, but there are many more buried in the literature and awaiting discovery. How do such constants arise, and why are they important? Here the author renews the search he began in his book Mathematical Constants, adding another 133 essays that broaden the landscape. Topics include the minimality of soap film surfaces, prime numbers, elliptic curves and modular forms, Poisson–Voronoi tessellations, random triangles, Brownian motion, uncertainty inequalities, Prandtl–Blasius flow (from fluid dynamics), Lyapunov exponents, knots and tangles, continued fractions, Galton–Watson trees, electrical capacitance (from potential theory), Zermelo's navigation problem, and the optimal control of a pendulum. Unsolved problems appear virtually everywhere as well. This volume continues an outstanding scholarly attempt to bring together all significant mathematical constants in one place.

Xamidea Mathematics (Standard) - Class 10 - CBSE (2020-21) - Xamidea Editorial Board 2020-04-28
Each chapter begins with basic concepts in the form of a flow chart. Important NCERT and NCERT EXEMPLAR Questions have also been included. Objective type questions include: Multiple Choice Questions Fill in the blanks Very Short Answer Questions based on latest CBSE Guidelines. HOTS (Higher Order Thinking Skills) based questions are given to think beyond rote learning. Proficiency Exercise is given at the end of each chapter for ample practice of the student. Self-assessment test is given chapterwise to check the knowledge grasped by the student. Three Periodic Tests which include Pen Paper Test and Multiple Assessment is given as a part of internal assessment. Five Model Papers are also provided to prepare the student for the examination. Solved CBSE 2020 Examination Paper

A Textbook of Algebra - Shah, S.K. & Garg, S.C.
The book caters to the 1st semester students of BSc (Hons) Mathematics of Indian universities. It has been written strictly in accordance with the CBCS syllabus of the UGC. The book teaches the concepts and techniques of basic algebra with a focus on explaining definitions and theorems, and creating proofs. The theory is supported by numerous examples and plenty of worked-out problems. Its strict logical organization has been designed to help the reader to develop confidence in the subject. By introducing various interesting applications of algebra the book also aims at creating a broad and solid foundation for the study of advanced mathematics.The contents covered in the book are equivalence relations, functions, cardinality, congruence-modulo, mathematical induction and De Moivre's theorem. Further, some basic topics of linear algebra like vectors and matrices, linear equations, Gauss elimination, subspace and its dimension, rank-nullity theorem, linear trans-formations and their relations to matrices, and eigenvalues and eigenvectors are also covered. Since practice makes the man perfect, there are a good number of problems that stretch the thinking power of the learner. The problems are graded from easy to those involving higher order thinking. By its virtue the book inculcates that mathe-matical maturity which students need in their current and future courses to grow up into mathematicians of substance.

Recommender Systems Handbook - Francesco Ricci 2015-11-17
This second edition of a well-received text, with 20 new chapters, presents a coherent and unified repository of recommender systems' major concepts, theories, methodologies, trends, and challenges. A variety of real-world applications and detailed case studies are included. In addition to wholesale revision of the existing chapters, this edition includes new topics including: decision making and recommender systems, reciprocal recommender systems, recommender systems in social networks, mobile recommender systems, explanations for recommender systems, music recommender systems, cross-domain recommendations, privacy in recommender systems, and semantic-based recommender systems. This multi-disciplinary handbook involves world-wide experts from diverse fields such as artificial intelligence, human-computer interaction, information retrieval, data mining, mathematics, statistics, adaptive user interfaces, decision support systems, psychology, marketing, and consumer behavior. Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas, methods and techniques for developing more efficient, cost-effective and accurate recommender systems.

Textbook of Mathematics - Diana Marks 2021-11-16
The discipline of mathematics is concerned with the study of topics such as quantity, space, change and structure. It uses patterns for the formulation of new conjectures. Pure mathematics and applied

mathematics are two of the major domains of mathematics. Pure mathematics focuses on the study of mathematical concepts such as quantity and structure. Applied mathematics deals with the application of mathematical concepts in different fields such as computer science, engineering, business, science and industry. Some of the other subdisciplines within this field are arithmetic, geometry, algebra and analysis. The concepts included in this book on mathematics are of utmost significance and bound to provide incredible insights to readers. Some of the diverse topics covered herein address the varied branches that fall under this category. Those with an interest in this field would find it helpful.

Simple Mathematical Models of Gene Regulatory Dynamics - Michael C. Mackey 2016-11-09
This is a short and self-contained introduction to the field of mathematical modeling of gene-networks in bacteria. As an entry point to the field, we focus on the analysis of simple gene-network dynamics. The notes commence with an introduction to the deterministic modeling of gene-networks, with extensive reference to applicable results coming from dynamical systems theory. The second part of the notes treats extensively several approaches to the study of gene-network dynamics in the presence of noise—either arising from low numbers of molecules involved, or due to noise external to the regulatory process. The third and final part of the notes gives a detailed treatment of three well studied and concrete examples of gene-network dynamics by considering the lactose operon, the tryptophan operon, and the lysis-lysogeny switch. The notes contain an index for easy location of particular topics as well as an extensive bibliography of the current literature. The target audience of these notes are mainly graduates students and young researchers with a solid mathematical background (calculus, ordinary differential equations, and probability theory at a minimum), as well as with basic notions of biochemistry, cell biology, and molecular biology. They are meant to serve as a readable and brief entry point into a field that is currently highly active, and will allow the reader to grasp the current state of research and so prepare them for defining and tackling new research problems.

APC Learning Mathematics - Class 6 (CBSE) - Avichal Publishing Company - M.L. Aggarwal
Learning Mathematics - Class 6 has been written by Prof. M.L. Aggarwal in accordance with the latest syllabus of the NCERT and Guidelines issued by the CBSE on Comprehensive and Continuous Evaluation (CCE). The subject matter has been explained in a simple language and includes many examples from real life situations. Questions in the form of Fill in the Blanks, True/False statements and Multiple Choice Questions have been given under the heading 'Mental Maths'. Some Value Based Questions have also been included to impart values among students. In addition to normal questions, some Higher Order Thinking Skills (HOTS) questions have been given to enhance the analytical thinking of the students. Each chapter is followed by a Summary which recapitulates the new terms, concepts and results.

APC Understanding ISC Mathematics - Class 11 - Avichal Publishing Company - M.L. Aggarwal
Understanding ISC Mathematics, for class 11 - sections A, B & C, has been written by Mr. M.L. Aggarwal (Former Head of P.G. Department of Mathematics, D.A.V. College, Jalandhar) strictly according to the new syllabus prescribed by the Council for the Indian School Certificate Examinations, New Delhi in the year 2015 and onwards for students of class 11. A new feature - Typical Illustrative Examples and Typical Problems, has been added in some chapters for those students who want to attempt some more challenging problems. The entire matter in the book is given in a logical sequence so as to develop and strengthen the concepts of the students.

Easy English Grammar - Dr Shalini Verma
English Grammar book
Methods of Multivariate Analysis - Alvin C. Rencher 2003-04-14
Amstat News asked three review editors to rate their topfive favorite books in the September 2003 issue. Methods ofMultivariate Analysis was among those chosen. When measuring several variables on a complex experimental unit,it is often necessary to analyze the variables simultaneously,rather than isolate them and consider them individually.Multivariate analysis enables researchers to explore the jointperformance of such variables and to determine the effect of eachvariable in the presence of the others. The Second Edition of AlvinRencher's Methods of Multivariate Analysis provides studentsof all statistical backgrounds with both the fundamental and moresophisticated skills necessary to master the discipline. To illustrate multivariate

applications, the author providesexamples and exercises based on fifty-nine real data sets from awide variety of scientific fields. Rencher takes a "methods"approach to his subject, with an emphasis on how students andpractitioners can employ multivariate analysis in real-lifesituations. The Second Edition contains revised and updatedchapters from the critically acclaimed First Edition as well asbrand-new chapters on: Cluster analysis Multidimensional scaling Correspondence analysis Biplots Each chapter contains exercises, with corresponding answers andhints in the appendix, providing students the opportunity to testand extend their understanding of the subject. Methods ofMultivariate Analysis provides an authoritative reference forstatistics students as well as for practicing scientists andclinicians.

The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5) - L.R. Morss 2007-12-31
The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements, especially of the technologically important elements uranium and plutonium, as well as the transactinide elements. In addition to the comprehensive treatment of the chemical properties of each element, ion, and compound from atomic number 89 (actinium) through to 109 (meitnerium), this multi-volume work has specialized and definitive chapters on electronic theory, optical and laser fluorescence spectroscopy, X-ray absorption spectroscopy, organoactinide chemistry, thermodynamics, magnetic properties, the metals, coordination chemistry, separations, and trace analysis. Several chapters deal with environmental science, safe handling, and biological interactions of the actinide elements. The Editors invited teams of authors, who are active practitioners and recognized experts in their specialty, to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier of the periodic table. Because the field has expanded with new spectroscopic techniques and environmental focus, the work encompasses five volumes, each of which groups chapters on related topics. All chapters represent the current state of research in the chemistry of these elements and related fields.

A Text Book of Calculus - S. C. Arora 1997

Selected Papers of K C Chou - Yue-Liang Wu 2009
This volume presents a collection of selected papers written by Prof Chou. The papers are organized into four parts according to the subject of research areas and the language of publishing journals. Part I (in English) and Part III (in Chinese) are papers on field theories, particle physics and nuclear physics, Part II (in English) and Part IV (in Chinese) are papers on statistical physics and condensed matter physics. From the published papers, it illustrates and is clearly evident how Prof Chou was constantly at the frontiers of theoretical physics in various periods and carried out creative research works experimenting with initial ideas and motivations, as well as how he has driven and worked in different key research directions of theoretical physics, all for which he has made significant contributions to various interesting research areas and interdisciplinary fields.

A guide to Mathematics for NTSE (Useful for JSTSE, NSEJS & KVPY) - Disha Experts 2018-11-19
The book A guide to Mathematics for NTSE (Useful for JSTSE, NSEJS & KVPY) has been written with a flavour to guide aspirants of Class 10/ 9 to master Mathematics for NTSE, JSTSE, NSEJS & KVPY. The book provides lucidly written theory along with a number of solved examples. The unique part of the book is the graded level of questions it provides. The theory is followed by 2 levels of exercises - Level 1 & 2. Previous Year Solved Questions of NTSE, JSTSE, NSEJS & KVPY are inserted in these exercises as per their suitable level. The detailed solution of each & every question has been provided at the end of the chapter. This book is a must for all Mathematics lovers and it will be an asset in building a strong foundation for Class 11/ 12/ IIT & all Aptitude exams.
How Tobacco Smoke Causes Disease - 2010
This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to

understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.