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The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Oswaal CBSE One for All Class 12 English, Physics, Chemistry & Mathematics (Set of 4 books) (For 2023 Exam) Oswaal Books and Learning Private Limited

This thorough and detailed exposition is the result of an intensive month-long course on mirror symmetry sponsored by the Clay Mathematics Institute. It develops mirror symmetry from both mathematical and physical perspectives with the aim of furthering interaction between the two fields. The material will be particularly useful for mathematicians and physicists who wish to advance their understanding across both disciplines. Mirror symmetry is a phenomenon arising in string theory in which two very different manifolds give rise to equivalent physics. Such a correspondence has significant mathematical consequences, the most familiar of which involves the enumeration of holomorphic curves inside complex manifolds by solving differential equations obtained from a "mirror" geometry. The inclusion of D-brane states in the equivalence has led to further conjectures involving calibrated submanifolds of the mirror pairs and new (conjectural) invariants of complex manifolds: the Gopakumar-Vafa invariants. This book gives a single, cohesive treatment of mirror symmetry. Parts 1 and 2 develop the necessary mathematical and physical background from "scratch". The treatment is focused, developing only the material

most necessary for the task. In Parts 3 and 4 the physical and mathematical proofs of mirror symmetry are given. From the physics side, this means demonstrating that two different physical theories give isomorphic physics. Each physical theory can be described geometrically, and thus mirror symmetry gives rise to a "pairing" of geometries. The proof involves applying S^1 circle duality to the phases of the fields in the gauged linear sigma model. The mathematics proof develops Gromov-Witten theory in the algebraic setting, beginning with the moduli spaces of curves and maps, and uses localization techniques to show that certain hypergeometric functions encode the Gromov-Witten invariants in genus zero, as is predicted by mirror symmetry. Part 5 is devoted to advanced topics This one-of-a-kind book is suitable for graduate students and research mathematicians interested in mathematics and mathematical and theoretical physics.

School Science and Mathematics Oswaal Books and Learning Private Limited
The Mathematics of Relativity for the Rest of Us is intended to give the generally educated reader a thorough and factual understanding of Einstein's theory of relativity - including the difficult mathematical concepts, even if the reader is not trained in higher mathematics.

University Physics World Scientific

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Karnataka PUE Solved Papers II PUC English, Physics, Chemistry & Mathematics (Set of 4 Books) (For 2023 Exam) American Mathematical Soc.

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. VOLUME III Unit 1: Optics Chapter 1: The Nature of Light Chapter 2: Geometric Optics and Image Formation Chapter 3: Interference Chapter 4: Diffraction Unit 2: Modern Physics Chapter 5: Relativity Chapter 6: Photons and Matter Waves Chapter 7: Quantum Mechanics Chapter 8: Atomic Structure Chapter 9: Condensed Matter Physics Chapter 10: Nuclear Physics Chapter 11: Particle Physics and Cosmology
Master Guide for UPTET Paper 2 (Class 6 - 8 Teachers) Mathematics/Science with Past Questions Simon and Schuster

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Welcome to Ian Stewart's strange and magical world of mathematics! In Math Hysteria, Professor Stewart presents us with a wealth of magical puzzles, each one spun around an amazing tale: Counting the Cattle of the Sun; The Great Drain Robbery; and Preposterous Piratical Predicaments; to name but a few. Along the way, we also meet many curious characters: in short, these stories are engaging, challenging, and lots of fun!

Comprehensive NDA/ NA Guide for Mathematics, English & General Knowledge Cambridge University Press

Chapter Navigation Tools CBSE Syllabus : Strictly as per the latest CBSE Syllabus dated: April 21, 2022 Cir. No. Acad-48/2022 Latest updations: 1. Term I & Term II Solved Papers 2022-23 (all sets of Delhi & Outside Delhi) 2. Toppers Answers -2020 Revision Notes: Chapter wise & Topic wise Exam Questions: Includes Previous Years Board Examination questions (2013-2021) CBSE Marking Scheme Answers: Previous Years' Board Marking scheme answers (2013-2020) with detailed explanation to facilitate exam-oriented preparation. New Typology of Questions: MCQs, assertion-reason, VSA, SA & LA including case based questions Toppers Answers: Latest Toppers' handwritten answers sheets Questions from Board Question Bank -2021 Mind Maps and concept videos to make learning simple. Coverage of Chapter wise complete NCERT textbook + NCERT Exemplar questions with answers. Dynamic QR code to keep the students updated for any further CBSE notifications/circulars Commonly Made Errors & Answering Tips to avoid errors and score improvement Self Assessment Tests & Practice Papers for self-evaluation

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The Mathematics of Relativity for the Rest of Us Prabhat Prakashan

The updated 2nd edition of this book "6 Solved Papers (2015 - 2022) & 10 Practice Sets for UPTET Paper 2 Science & Mathematics (Class 6 - 8 Teachers) English Edition" contains 10 Practice Sets and Past 6 Solved Papers of the UPTET exam. # The Book provides the 2020 UPTET paper held in January 2022. # The Practice Sets follows the exact pattern as per the latest UPTET paper. # The languages covered in the tests are Hindi (1st language) and English (2nd language). # Each Practice Set in the book contains sections on Child Development & Pedagogy, English, Hindi, Mathematics & EVS. # The question papers have been set very diligently so as to give a real-feel of the actual UPTET Exam.

Mirror Symmetry Disha Publications

The Shape of Algebra is the authors' attempt to share their mathematical experiences with readers who have more than a passing interest in mathematics, but have only a traditional exposure to elementary algebra. Secondary school and college teachers and students who want to expand their horizons in the field will find a fresh presentation of familiar concepts and some unexpected results. This book serves as a text for an "appreciation" course in modern mathematics designed for non-mathematics majors or for first-year students who are considering the possibility of studying mathematics or related disciplines. It can also serve as a source of computer-supported activities that could supplement traditional courses in algebra, multivariable calculus, and complex variable. This book gives the reader a sense of the visual nature of mathematics. Mathematical experiments with universal mapping software VisuMatica, designed by Vladimir Nodel'man, form the very core of the book. Readers are encouraged to reproduce, play with, and expand on these experiments. Numerous problems are interspersed throughout the text to guide the reader. Our treatment of standard algebra is visual and computational. By introducing visual computational environments like VisuMatica, our book promotes this geometric approach to algebra and makes it accessible to readers a great deal earlier. The book will enable our readers to approach its content on three levels: the first one which requires only some fluency with elementary algebraic manipulations; the second one which also presumes familiarity with the notions of derivatives and tangent lines to plane curves, and the third one which uses some basic concepts of multivariable calculus. All three levels are clearly marked in the text, and will allow for a smooth reading and virtual experiments, regardless of the level that our readers will find comfortable.

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including mechanics, electricity and magnetism, waves and optics, thermodynamics, and more. Online Practice Test: Students also get access to one brand new, full-length online practice test with all questions answered and explained. Unique features include a "What's the Trick?" approach to solving problems quickly and effectively. Additional tips, called out with "If You See..." are included within the chapters to give test takers critical insight into difficult concepts, and QR codes are provided at "Key Concept" areas link to short videos to enhance instruction. The authors also provide general examination strategies and a detailed appendix with equations, physical constants, and a basic math review.

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English Mechanic and Mirror of Science Cambridge University Press
Contains 250 questions and answers about astronomy, particular for the amateur astronomer.