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Mechanical Engineering: Resolving forces in a plane, design of gears (e.g. in cars), design of airplane landing gear Civil Engineering: Structural engineering, surveying, traffic engineering, geotechnical engineering Electrical and Electronic Engineering: Oscillating waves (circuits, signal processing), electric and magnetic fields, design of power generating equipment, radio frequency (RF) systems and antenna design Energy Systems Engineering: Design of sun-tracking mirrors (heliostats …

Role of mathematics in science and engineering
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Since the applications of mathematics in engineering are so vast and varied, it is not possible to summarize them. The most important areas of Mathematics in Engineering are trigonometry, differential equations, geometry, and integral mathematics. The Civil Engineering depends greatly on the trigonometric and geometric logics.

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Introductory Mathematics for Engineering Applications, 2nd Edition, provides first-year engineering students with a practical, applications-based approach to the subject. This comprehensive textbook covers pre-calculus, trigonometry, calculus, and differential equations in the context of various discipline-specific engineering applications. The text offers numerous worked examples and problems representing a wide range of real-world uses, from determining hydrostatic pressure on a retaining wall to measuring current, voltage, and energy stored in an electrical capacitor. Rather than focusing on derivations and theory, clear and accessible chapters deliver the hands-on mathematical knowledge necessary to solve the engineering problems students will encounter in their careers. The textbook is designed for courses that complement traditional math prerequisites for introductory engineering courses — enabling students to advance in their engineering curriculum without first completing calculus requirements. Now available in enhanced ePub format, this fully updated second edition helps students apply mathematics to engineering scenarios involving physics, statics, dynamics, strength of materials, electric circuits, and more.

This book includes research studies, novel theory, as well as new methodology and applications in mathematics and management sciences. The book will provide a comprehensive range of mathematics applied to engineering areas for different tasks. It will offer an international perspective and a bridge between classical theory and new methodology in many areas, along with real-life applications. Features Offers solutions to multi-objective transportation problem under cost reliability using utility function Presents optimization techniques to support eco-efficiency assessment in manufacturing processes Covers distance-based function approach for optimal design of engineering processes with multiple quality characteristics Provides discrete time sliding mode control for non-linear networked control systems Discusses second law of thermodynamics as instruments for optimizing fluid dynamic systems and aerodynamic systems

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.

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Engineering Mathematics - II is meant for undergraduate engineering students. Considering the vast coverage of the subject, usually this paper is taught in three to four semesters. The two volumes in Engineering Mathematics by Babu Ram offer a complete solution to these papers.

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The text has been divided in two volumes: Volume I (Ch. 1-13) & Volume II (Ch. 14-22). In addition to the review material and some basic topics as discussed in the opening chapter, the main text in Volume I covers topics on infinite series, differential and integral calculus, matrices, vector calculus, ordinary differential equations, special functions and Laplace transforms. Volume II covers topics on complex analysis, Fourier analysis, partial differential equations and statistics. The present book has numerous distinguishing features over the already existing books on the same topic. The chapters have been planned to create interest among the readers to study and apply the mathematical tools. The subject has been presented in a very lucid and precise manner with a wide variety of examples and exercises, which would eventually help the reader for hassle free study.