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Walter de Gruyter GmbH & Co KG The book is devoted to recent developments in the theory of fractional calculus and its applications. Particular attention is paid to the applicability of this currently popular research field in various branches of pure and applied mathematics. In particular, the book focuses on the more recent results in mathematical physics, engineering applications, theoretical and applied physics as quantum mechanics, signal analysis, and in those relevant research fields where nonlinear dynamics occurs and several tools of nonlinear analysis are required. Dynamical processes and dynamical systems of fractional order attract researchers from many areas of sciences and technologies, ranging from mathematics and physics to computer science.

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RAJEEV BANSAL Unit-I :Electrostatics 1.Electric charge and Electric Field, 2 .Gauss' Theorem, 3 .Electric Potential, 4. Electric Capacitance, Unit-II : Current Electricity 5.Electric Conduction and Ohm's Law, 6. Electric Measurements, Unit-III : Magnetic Effects of Electric Current and Magnetism 7.Magnetic Effects of Electric Current, 8 .Magnetism, Unit-IV : Electromagnetic Induction and Alternating Current 9.Electromagnetic Induction, 10. Alternating Current, Unit-V : Electromagnetic Waves 11.Electromagnetic Waves, Log Antilog Table Value Based Questions (VBQ) Board Examination Papers.

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CHAPTER-WISE NCERT + EXEMPLAR + PAST 13 YEARS SOLUTIONS FOR CBSE CLASS 12 PHYSICS 7TH EDITION

Disha Publications

CHAPTER-WISE NCERT + EXEMPLAR + PAST 11 YEARS SOLUTIONS FOR CBSE CLASS 12 PHYSICS 5TH EDITION

Disha Publications The book provides Step-by-step Chapter-wise Solutions to the 3 Most Important requirements of the students - NCERT Book + Exemplar Book + Past 10 Years Solutions for CBSE Class 12. The 5th Edition of the book is divided into 3 sections. • Section 1 - NCERT Exercise - consists of solutions to all Intext and chapter exercises. • Section 2 - Past Year Questions of Past 10 years with Solutions. • Section 3 - Exemplar Problems - Solutions to select NCERT Exemplar problems.

6500+ MCQS: ELECTRICAL ENGINEERING (ENGLISH)

Engineers Academy Publications This book contains exhaustive collection of more than 6500+ MCQs with solution explained in easy language for engineering students of Electrical Engineering. In addition, the questions have been selected from various competitive exams to give the students an understanding of various types of exams. This book is essential to candidates appearing for U.P.S.C. (Engineering & Civil Services), State and Central Level Services Exams: Assistant Engineer /Junior Engineer, SSC-JE, RRB-JE, State Electricity Boards (APPGC, ASEB, BSPHCL, CSPGCL, HPGC, JSEB, KPCL, KSEB, MPPGCL, MSEB, RSEB, UPRVUNL, WBPDC, OPGC, TNEB, TPGC, PSPCL, JTO, PSUs : NPCIL, PGCIL, NHPC, PSOC, NLC, DVC NTPC, REC, BEST, KPTCL, TNEB and Metro Exams Like : DMRC, LMRC, NMRC, JMRC, BMRC, HMLR, KMRR, MMRR, PMRR and Admission/Recruitment Test and other Technical Exams in Electrical Engineering.

ELECTRONICS ENGINEERING MCQ (4600+ MCQS-ENGLISH)

Epublication This book contains exhaustive collection of more than 4600+ MCQs with solutions explained in easy language for engineering students of Electronics Engineering. In addition, the questions have been selected from various competitive exams to give the students an understanding of various types of exams. This book is essential to candidates appearing for U.P.S.C. (Engineering & Civil Services), State and Central Level Services Exams: RRB-JE, PSUs, BARC, DRDO, ISRO, TTA, Admission/Recruitment Test, and other Technical Exams in Electrical Engineering

5 STEPS TO A 5 AP PHYSICS C, 2014-2015 EDITION

McGraw Hill Professional Presents a study plan to build knowledge and confidence, discusses study skills and strategies, reviews core concepts, and includes one diagnostic exam and two practice exams.

NEW PATTERN NTA JEE MAIN QUICK GUIDE IN PHYSICS WITH NUMERIC ANSWER QUESTIONS 3RD EDITION

Disha Publications As NTA introduces Numeric Answer Questions in JEE Main, Disha launches the Questions' the 3rd latest updated edition of 'New Pattern NTA JEE Main Quick Guide in Physics with Numeric Answer Questions'. This study material is developed for quick revision and practice of the complete syllabus of the JEE Main Exam in a short span of 40 days. The book can prove to be the ideal material for class 12 students as they can utilise this book to revise their preparation immediately after the board exams. The book contains 27 chapters of class 11 & 12 and each Chapter contains: # JEE Main 6 Years at a Glance i.e., JEE Main (2019 - 2014) with TOPIC-WISE Analysis. # Detailed Concept Maps covers entire JEE Syllabus for speedy revision. # IMPORTANT/ CRITICAL Points of the Chapter for last minute revision. # TIPS to PROBLEM SOLVING - to help students to solve Problems in shortest possible time. # Exercise 1 CONCEPT BUILDER - A Collection of Important Topic-wise MCQs to Build Your Concepts. # Exercise 2 CONCEPT APPLICATOR - A Collection of Quality MCQs that helps sharpen your concept application ability. # Exercise 3 Numeric Answer Questions - A Collection of Quality Numeric Answer Questions as per the new pattern of JEE. # Answer Keys & Detailed Solutions of all the Exercises and Past years problems are provided at the end of the chapter.

VECTOR ANALYSIS AND GEOMETRY

Ram Prasad Publications(R.P.H.) MATHEMATICS, GANIT, B.SC , IST YEAR, RP, RPP UNIFIED

A CULTURE OF ENGAGEMENT

LAW, RELIGION, AND MORALITY

Georgetown University Press Religious traditions in the United States have been characterized by an ongoing tension between assimilation to the broader culture, typically reflected by mainline Protestant churches, and defiant rejection of cultural incursions, as witnessed by more sectarian movements such as Mormonism and Hassidism. But legal theorist and theologian Cathleen Kaveny contends that religious traditions do not need to swim in either the Current of Openness or the Current of Identity. There is a third possibility, which she calls the Current of Engagement, which accommodates and respects tradition but which recognizes the need to interact with culture to remain relevant and to offer a prophetic critique of social and political and legal and economic practice. In fifty-six brief articles Kaveny illustrates the implications of the Current of Engagement in American public life. The articles are organized into five chapters or sections: Law as Teacher; Religious Liberty and its Limits; Conversations about Culture; Conversations about Belief; and Cases and Controversies. Kaveny provides astonishing insights into a range of hot-button issues: abortion, assisted suicide, government-sponsored torture, contraception, the Ashley Treatment, capital punishment, and the role of religious faith in a pluralistic society.

(FREE SAMPLE) CHAPTER-WISE NCERT + EXEMPLAR + PAST 13 YEARS SOLUTIONS FOR CBSE CLASS 12 PHYSICS 7TH EDITION

Disha Publications

PI: A SOURCE BOOK

Springer This book documents the history of pi from the dawn of mathematical time to the present. One of the beauties of the literature on pi is that it allows for the inclusion of very modern, yet accessible, mathematics. The articles on pi collected herein fall into various classes. First and foremost there is a selection from the mathematical and computational literature of four millennia. There is also a variety of historical studies on the cultural significance of the number. Additionally, there is a selection of pieces that are anecdotal, fanciful, or simply amusing. For this new edition, the authors have updated the original material while adding new material of historical and cultural interest. There is a substantial exposition of the recent history of the computation of digits of pi, a discussion of the normality of the distribution of the digits, and new translations of works by Viete and Huygen.

GAUSS AND JACOBI SUMS

[Wiley-Interscience](#) Devised in the 19th century, Gauss and Jacobi Sums are classical formulas that form the basis for contemporary research in many of today's sciences. This book offers readers a solid grounding on the origin of these abstract, general theories. Though the main focus is on Gauss and Jacobi, the book does explore other relevant formulas, including Cauchy.

STUDENT SOLUTIONS MANUAL WITH STUDY GUIDE FOR SERWAY/JEWETT'S PRINCIPLES OF PHYSICS: A CALCULUS-BASED TEXT, VOLUME 2

[Cengage Learning](#) This two-volume manual features detailed solutions to 20 percent of the end-of-chapter problems from the text, plus lists of important equations and concepts, other study aids, and answers to selected end-of-chapter questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

PROCEEDINGS OF THE 15TH ASIAN PHYSICS OLYMPIAD

[World Scientific](#) The Asian Physics Olympiad (APhO) is a unique, single-subject, practical and theory-based individual competition in the field of physics. It was developed to provide young Asian students with a platform to display their physics knowledge. It is the celebration of the best in pre-university physics. Each year, for about one week, pre-university students from across Asia gather and test their theory and practical skills in physics. This book contains question papers in both theory and experiment and their solutions together with description of various activities of the 15th Asian Physics Olympiad held in Singapore from 11th to 18th May 2014. The book will serve as a valuable source of interesting and challenging experimental and theoretical topics for young physicists worldwide. Contents: Participating Delegations Speeches Opening Ceremony Closing Ceremony Committee Programme Results Participants Problems and Solutions Theory Problem 1 Theory Problem 2 Theory Problem 3 Experimental Problem Selected Translations International Board Statutes Syllabus Minutes of the International Board Meeting Newsletter Photos Readership: Students, lecturers and educators interested in high school physics. Key Features: Useful study guide for students training for Physics Olympiads and similar competitions Useful teaching guide for physics educators and those working in higher education Keywords: Physics Olympiad; Training; Physics Education; APhO; Singapore; Competition; NUS; A-STAR

THE BURNING ANSWER

A USER'S GUIDE TO THE SOLAR REVOLUTION

[Weidenfeld & Nicolson](#) Our civilisation stands on the brink of catastrophe. Our thirst for energy has led to threats from global warming, nuclear disaster and conflict in oil-rich countries. We are running out of options. Solar power, Keith Barnham argues, is the answer. In this eye-opening book, he shows how a solar revolution is developing based on one of Einstein's lesser known discoveries, one that gave us laptop computers and mobile phones. An accessible guide to renewable technology and a hard-hitting critique of the arguments of solar sceptics, The Burning Answer outlines a future in which the fuel for electric cars will be generated on our rooftops. It is, above all, an impassioned call to arms to join the solar revolution before it's too late.

GATE 2019 MECHANICAL ENGINEERING MASTERPIECE WITH 10 PRACTICE SETS (6 IN BOOK + 4 ONLINE) 6TH EDITION

[Disha Publications](#) • 'GATE Mechanical Engineering Masterpiece 2019 with 10 Practice Sets - 6 in Book + 4 Online Tests - 6th edition' for GATE exam contains exhaustive theory, past year questions, practice problems and Mock Tests. • Covers past 14 years questions. • Exhaustive EXERCISE containing 100-150 questions in each chapter. In all contains around 5200 MCQs. • Solutions provided for each question in detail. • The book provides 10 Practice Sets - 6 in Book + 4 Online Tests designed exactly on the latest pattern of GATE exam.

GATE 2020 MECHANICAL ENGINEERING GUIDE WITH 10 PRACTICE SETS (6 IN BOOK + 4 ONLINE) 7TH EDITION

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THE DEVELOPMENT OF MATHEMATICS THROUGHOUT THE CENTURIES

A BRIEF HISTORY IN A CULTURAL CONTEXT

[John Wiley & Sons](#) Throughout the book, readers take a journey throughout time and observe how people around the world have understood these patterns of quantity, structure, and dimension around them. The Development of Mathematics Throughout the Centuries: A Brief History in a Cultural Context provides a brief overview of the history of mathematics in a very straightforward and understandable manner and also addresses major findings that influenced the development of mathematics as a coherent discipline. This book: Highlights the contributions made by various world cultures including African, Egyptian, Babylonian, Chinese, Indian, Islamic, and pre-Columbian American mathematics Features an approach that is not too rigorous and is ideal for a one-semester course of the history of mathematics. Includes a Resources and Recommended Reading section for further exploration and has been extensively classroom-tested

MULTIVARIATE, MULTILINEAR AND MIXED LINEAR MODELS

[Springer Nature](#) This book presents the latest findings on statistical inference in multivariate, multilinear and mixed linear models, providing a holistic presentation of the subject. It contains pioneering and carefully selected review contributions by experts in the field and guides the reader through topics related to estimation and testing of multivariate and mixed linear model parameters. Starting with the theory of multivariate distributions, covering identification and testing of covariance structures and means under various multivariate models, it goes on to discuss estimation in mixed linear models and their transformations. The results presented originate from the work of the research group Multivariate and Mixed Linear Models and their meetings held at the Mathematical Research and Conference Center in Będlewo, Poland, over the last 10 years. Featuring an extensive bibliography of related publications, the book is intended for PhD students and researchers in modern statistical science who are interested in multivariate and mixed linear models.

HIGH ENERGY GAMMA-RAY ASTRONOMY

INTERNATIONAL SYMPOSIUM, HEIDELBERG, GERMANY, 26-30 JUNE 2000

[American Institute of Physics](#) This conference was attended by leading experts in the field of gamma-ray astronomy as well as students and postdocs from around the world. The symposium concerned the basic observational and theoretical topics and the objectives of the rapidly developing field of gamma-ray astronomy in the energy range above 10 GeV, with emphasis on the connections between physics at GeV and TeV energies by which the most violent processes in the universe manifest themselves. The topics ranged from particle acceleration in different astrophysical environments, the origin of cosmic rays, and the relativistic astrophysics of jets and winds from compact galactic objects and active galactic nuclei, to observational cosmology. They comprised almost all known and expected gamma-ray populations and their contributions to the non-thermal inventory of the Universe. The symposium was primarily concerned with the scientific aspects of the field and less with the development of instrumentation.

MULTIVARIABLE CALCULUS, LINEAR ALGEBRA, AND DIFFERENTIAL EQUATIONS

[Academic Press](#) Multivariable Calculus, Linear Algebra, and Differential Equations, Second Edition contains a comprehensive coverage of the study of advanced calculus, linear algebra, and differential equations for sophomore college students. The text includes a large number of examples, exercises, cases, and applications for students to learn calculus well. Also included is the history and development of calculus. The book is divided into five parts. The first part includes multivariable calculus material. The second part is an introduction to linear algebra. The third part of the book combines techniques from calculus and linear algebra and contains discussions of some of the most elegant results in calculus including Taylor's theorem in "n" variables, the multivariable mean value theorem, and the implicit function theorem. The fourth section contains detailed discussions of first-order and linear second-order equations. Also included are optional discussions of electric circuits and vibratory motion. The final section discusses Taylor's theorem, sequences, and series. The book is intended for sophomore college students of advanced calculus.

MATTER AND INTERACTIONS

[John Wiley & Sons](#) Matter and Interactions, 4th Edition offers a modern curriculum for introductory physics (calculus-based). It presents physics the way practicing physicists view

their discipline while integrating 20th Century physics and computational physics. The text emphasizes the small number of fundamental principles that underlie the behavior of matter, and models that can explain and predict a wide variety of physical phenomena. Matter and Interactions, 4th Edition will be available as a single volume hardcover text and also two paperback volumes.

MATTER AND INTERACTIONS, VOLUME 2

ELECTRIC AND MAGNETIC INTERACTIONS

[John Wiley & Sons](#) Matter and Interactions, Volume II offers a modern curriculum for introductory physics (calculus-based). It presents physics the way practicing physicists view their discipline while integrating 20th Century physics and computational physics. The text emphasizes the small number of fundamental principles that underlie the behavior of matter, and models that can explain and predict a wide variety of physical phenomena. Matter and Interactions will be available as a single volume hardcover text and also two paperback volumes. Volume Two includes chapters 13-23.

MATTER AND INTERACTIONS, VOLUME 1

MODERN MECHANICS

[John Wiley & Sons](#) Matter and Interactions offers a modern curriculum for introductory physics (calculus-based). It presents physics the way practicing physicists view their discipline while integrating 20th Century physics and computational physics. The text emphasizes the small number of fundamental principles that underlie the behavior of matter, and models that can explain and predict a wide variety of physical phenomena. Matter and Interactions will be available as a single volume hardcover text and also two paperback volumes. Volume One includes chapters 1-12.

MATHEMATICAL CULTURES

THE LONDON MEETINGS 2012-2014

[Birkhäuser](#) This collection presents significant contributions from an international network project on mathematical cultures, including essays from leading scholars in the history and philosophy of mathematics and mathematics education. Mathematics has universal standards of validity. Nevertheless, there are local styles in mathematical research and teaching, and great variation in the place of mathematics in the larger cultures that mathematical practitioners belong to. The reflections on mathematical cultures collected in this book are of interest to mathematicians, philosophers, historians, sociologists, cognitive scientists and mathematics educators.

ECIC2014-PROCEEDINGS OF THE 6TH EUROPEAN CONFERENCE ON INTELLECTUAL CAPITAL

ECIC 2014

[Academic Conferences Limited](#)

OSWAAL KARNATAKA PUE SOLVED PAPERS II PUC PHYSICS BOOK CHAPTERWISE & TOPICWISE (FOR 2023 EXAM)

[Oswaal Books and Learning Private Limited](#) • Latest Solved Paper with Scheme of Valuation-2022. • Strictly as per the latest syllabus, blueprint & design of the question paper. • All Typologies-Objective, VSA, SA & Essay Types Questions • Previous Years' Exam (2011-2022) Questions with Scheme of Valuation • NCERT Textbook Questions fully solved • PUE Question Bank Fully solved • Revision notes, Mind Maps & Concept videos for clarity of Concepts.

KARNATAKA PUE SOLVED PAPERS II PUC ENGLISH, PHYSICS, CHEMISTRY & MATHEMATICS (SET OF 4 BOOKS) (FOR 2023 EXAM)

[Oswaal Books and Learning Private Limited](#) Latest Solved Paper with Scheme of Valuation-2022. Strictly as per the latest syllabus, blueprint & design of the question paper. All Typologies-Objective, VSA, SA & Essay Types Questions Previous Years' Exam(2011-2022) Questions with Scheme of Valuation NCERT Textbook Questions fully solved PUE Question

Bank Fully solved Revision notes, Mind Maps & Concept videos for clarity of Concepts

PRECALCULUS WITH LIMITS: A GRAPHING APPROACH, TEXAS EDITION

Cengage Learning Part of the market-leading graphing approach series by Ron Larson, **PRECALCULUS WITH LIMITS: A GRAPHING APPROACH** is an ideal student and instructor resource for courses that require the use of a graphing calculator. The quality and quantity of the exercises, combined with interesting applications and innovative resources, make teaching easier and help students succeed. Retaining the series' emphasis on student support, selected examples throughout the text include notations directing students to previous sections to review concepts and skills needed to master the material at hand. The book also achieves accessibility through careful writing and design-including examples with detailed solutions that begin and end on the same page, which maximizes readability. Similarly, side-by-side solutions show algebraic, graphical, and numerical representations of the mathematics and support a variety of learning styles. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

PROGRAMMING PROJECTS IN C FOR STUDENTS OF ENGINEERING, SCIENCE, AND MATHEMATICS

SIAM Like a pianist who practices from a book of études, readers of **Programming Projects in C for Students of Engineering, Science, and Mathematics** will learn by doing. Written as a tutorial on how to think about, organize, and implement programs in scientific computing, this book achieves its goal through an eclectic and wide-ranging collection of projects. Each project presents a problem and an algorithm for solving it. The reader is guided through implementing the algorithm in C and compiling and testing the results. It is not necessary to carry out the projects in sequential order. The projects contain suggested algorithms and partially completed programs for implementing them to enable the reader to exercise and develop skills in scientific computing; require only a working knowledge of undergraduate multivariable calculus, differential equations, and linear algebra; and are written in platform-independent standard C; the Unix command-line is used to illustrate compilation and execution.

NCERT SOLUTIONS PHYSICS 12TH

Arihant Publications India limited A unique book containing Questions-Answers of NCERT Textbook based questions. This book containing solutions to NCERT Textbook questions has been designed for the students studying in Class XII following the NCERT Textbook for Physics. Important definition and Formulas are given in the beginning of each chapter .The book gives comprehensive solutions to the numerical and theoretical problems in the textbook. The book has been divided into 15 Chapters. Keeping in mind this importance and significance of the NCERT Textbooks in mind, Arihant has come up with namely Electric Charges; Fluids, Current Electricity, Atoms, electromagnetic Induction, Alternating Current, Nuclei, Magnetism; Matter, Communication System, Wave Optics, etc. covering the syllabus of Physics for Class XII. Content: 1. Electric Charges and Field 2. Electrostatic Potential and Capacitance 3. Current Electricity 4. Moving Charges and Magnetism 5. Magnetism and Matter 6. Electromagnetic Induction 7. Alternating Current 8. Electromagnetic Waves 9. Ray Optics and Optical Instruments 10. Wave Optics 11. Dual Nature of Radiation and Matter 12. Atoms 13. Nuclei 14. Semiconductor Electronics 15. Communication System

ORTHOGONAL POLYNOMIALS IN MATLAB

EXERCISES AND SOLUTIONS

SIAM Techniques for generating orthogonal polynomials numerically have appeared only recently, within the last 30 or so years.?Orthogonal Polynomials in MATLAB: Exercises and Solutions?describes these techniques and related applications, all supported by MATLAB programs, and presents them in a unique format of exercises and solutions designed by the author to stimulate participation. Important computational problems in the physical sciences are included as models for readers to solve their own problems.?

TOPICS IN MODERN PHYSICS

SOLUTIONS TO PROBLEMS

World Scientific Publishing Company Our understanding of the physical world was revolutionized in the twentieth century – the era of “modern physics”. Two books by the second author entitled **Introduction to Modern Physics: Theoretical Foundations** and **Advanced Modern Physics: Theoretical Foundations**, aimed at the very best students, present the

foundations and frontiers of today's physics. Many problems are included in these texts. A previous book by the current authors provides solutions to the over 175 problems in the first volume. A third volume *Topics in Modern Physics: Theoretical Foundations* has recently appeared, which covers several subjects omitted in the essentially linear progression in the previous two. This book has three parts: part 1 is on quantum mechanics, part 2 is on applications of quantum mechanics, and part 3 covers some selected topics in relativistic quantum field theory. Parts 1 and 2 follow naturally from the initial volume. The present book provides solutions to the over 135 problems in this third volume. The three volumes in this series, together with the solutions manuals, provide a clear, logical, self-contained, and comprehensive base from which students can learn modern physics. When finished, readers should have an elementary working knowledge in the principal areas of theoretical physics of the twentieth century. Request Inspection Copy