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Physics Exam-builder for HKDSE

Force and Motion (Second Edition)

Fillans Press Limited The second edition of this book series "Physics Exam-Builder for HKDSE" is written in accordance with the amended NSS physics curriculum guidelines for 2016 HKDSE and onwards. Book 2 covers the topics of Mechanics, which lays the foundation of physics and the concepts are also used in other sections of the syllabus. Moreover, this section carries a significant weight in the HKDSE examination. It takes time for students to grasp the concepts and master the necessary skills in solving problems. Some examination questions on this section cover integrated topics and require candidates' ability to comprehend an unfamiliar situation and to apply suitable knowledge in solving problems. In this book, although topics are grouped clearly in different chapters, some questions in a later chapter require application of knowledge learned in previous chapters. This will help candidates to consolidate their knowledge and to build up their confidence in tackling problems demanding higher order skills.

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Introduction to Polymer Physics

Oxford University Press This book is a concise textbook on polymer physics for graduate students. Researchers in physics, physical chemistry and chemical engineers who are interested in complex fluids can also benefit from the book.

Nonlinear Partial Differential Equations in Geometry and Physics

The 1995 Barrett Lectures

Birkhäuser This volume presents the proceedings of a series of lectures hosted by the Mathematics Department of The University of Tennessee, Knoxville, March 22-24, 1995, under the title "Nonlinear Partial Differential Equations in Geometry and Physics". While the relevance of partial differential equations to problems in differential geometry has been recognized since the early days of the latter subject, the idea that differential equations of differential-geometric origin can be useful in the formulation of physical theories is a much more recent one. Perhaps the earliest emergence of systems of nonlinear partial differential equations having deep geometric and physical importance were the Einstein equations of general relativity (1915). Several basic aspects of the initial value problem for the Einstein equations, such as existence, regularity and stability of solutions remain prime research areas today, eighty years after Einstein's work. An even more recent development is the realization that structures originally the context of models in theoretical physics may turn out to have introduced in important geometric or topological applications. Perhaps its emergence can be traced back to 1954, with the introduction of a non-abelian version of Maxwell's equations as a model in elementary-particle physics, by the physicists C.N. Yang and R. Mills. The rich geometric structure of the Yang-Mills equations was brought to the attention of mathematicians through work of M.F. Atiyah, J. Hitchin, I.

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The Athenaeum

Lasers

University Science Books An introductory text on laser physics features an emphasis on basic laser principles and theory, without requiring a quantum mechanical background.

Oswaal Karnataka PUE Sample Question Papers, I PUC, Class 11 (Set of 4 Books) Physics, Chemistry,

Mathematics, Biology (For 2022 Exam)

Oswaal Books and Learning Private Limited 10 Sample Papers in each subject.5 solved & 5 Self-Assessment Papers. Strictly as per the latest syllabus, blueprint & design of the question paper issued by Karnataka Secondary Education Examination Board (KSEEB) for SSLC exam. Latest MCQs based Board Examination Paper-2021(Held on July-2021) with Board Model Answer On-Tips Notes & Revision Notes for Quick Revision Mind Maps (Only for Science/Social Science & Maths for better learning Board-specified typologies of questions for exam success Perfect answers with Board Scheme of Valuation Hand written Toppers Answers for exam-oriented preparation Includes Solved Board Model Papers.

Neutrosophic Sets and Systems: An International Book Series in Information Science and Engineering, vol. 25 / 2019

Infinite Study "Neutrosophic Sets and Systems" has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

A Connected Curriculum for Higher Education

UCL Press Is it possible to bring university research and student education into a more connected, more symbiotic relationship? If so, can we develop programmes of study that enable faculty, students and 'real world' communities to connect in new ways? In this accessible book, Dilly Fung argues that it is not only possible but also potentially transformational to develop new forms of research-based education. Presenting the Connected Curriculum framework already adopted by UCL, she opens windows onto new initiatives related to, for example, research-based education, internationalisation, the global classroom, interdisciplinarity and public engagement. A Connected Curriculum for Higher Education is, however, not just about developing engaging programmes of study. Drawing on the field of philosophical hermeneutics, Fung argues how the Connected Curriculum framework can help to create spaces for critical dialogue about educational values, both within and across existing research groups, teaching departments and learning communities. Drawing on vignettes of practice from around the world, she argues that developing the synergies between research and education can empower faculty members and students from all backgrounds to contribute to the global common good.

Remaining Issues in the Decommissioning of Nuclear Powered Vessels

Including Issues Related to the Environmental Remediation of the Supporting Infrastructure

Springer Science & Business Media This collection of articles, together with the two previous companion publications of 1995 and 1997, represent the most complete set of materials on the issues relating to nuclear submarine utilisation and safety when managing spent nuclear fuel and radioactive wastes. The book is indispensable for scientists, engineers, shipyard technicians and decision makers in the fields of radioecology and the management of decommissioned hazardous radiation facilities that were constructed for other than their present purposes.

Nuclear Science Abstracts

Superradiance

Energy Extraction, Black-Hole Bombs and Implications for Astrophysics and Particle Physics

Springer This volume gives a unified picture of the multifaceted subject of superradiance, with a focus on recent developments in the field, ranging from fundamental physics to astrophysics. Superradiance is a radiation enhancement process that involves dissipative systems. With a 60 year-old history, superradiance has played a prominent role in optics, quantum mechanics and especially in relativity and astrophysics. In Einstein's General Relativity, black-hole superradiance is permitted by dissipation at the event horizon, which allows energy extraction from the vacuum, even at the classical level. When confined, this amplified radiation can give rise to strong instabilities known as "blackhole bombs", which have applications in searches for dark matter, in physics beyond the Standard Model and in analog models of gravity. This book discusses and draws together all these fascinating aspects of superradiance.

The Case for Space

How the Revolution in Spaceflight Opens Up a Future of Limitless Possibility

Prometheus Books A noted space expert explains the current revolution in spaceflight, where it leads, and why we need it. A new space race has begun. But the rivals in this case are not superpowers but competing entrepreneurs. These daring pioneers are creating a revolution in spaceflight that promises to transform the near future. Astronautical engineer Robert Zubrin spells out the potential of these new developments in an engrossing narrative that is visionary yet grounded by a deep understanding of the practical challenges. Fueled by the combined expertise of the old aerospace industry and the talents of Silicon Valley entrepreneurs, spaceflight is becoming cheaper. The new generation of space explorers has already achieved a major breakthrough by creating reusable rockets. Zubrin foresees more rapid innovation, including global travel from any point on Earth to another in an hour or less; orbital hotels; moon bases with incredible space observatories; human settlements on Mars, the asteroids, and the moons of the outer planets; and then, breaking all limits, pushing onward to the stars. Zubrin shows how projects that sound like science fiction can actually become reality. But beyond the how, he makes an even more compelling case for why we need to do this--to increase our knowledge of the universe, to make unforeseen discoveries on new frontiers, to harness the natural resources of other planets, to safeguard Earth from stray asteroids, to ensure the future of humanity by expanding beyond its home base, and to protect us from being catastrophically set against each other by the false belief that there isn't enough for all.

Saturn Run

Penguin Fans of *The Martian* will enjoy this extraordinary new thriller of the future from #1 New York Times bestselling and Pulitzer Prize-winning author John Sandford and internationally known photo-artist and science fiction aficionado Ctein. In 2066, a Caltech intern notices an anomaly from a space telescope—something is approaching Saturn, and decelerating. Space objects don't decelerate. Spaceships do... A flurry of top-level government meetings produce the inescapable conclusion: Whatever built the ship is at least one hundred years ahead of our technology, and whoever can get their hands on it will have an advantage so large, no other nation can compete. The race is on, and a remarkable adventure begins. Soon a hastily thrown-together crew finds its strength and wits tested against adversaries of this earth and beyond. So buckle up, because two perfectly matched storytellers are about to take you for a ride...

Lie Algebras and Locally Compact Groups

University of Chicago Press This volume presents lecture notes based on the author's courses on Lie algebras and the solution of Hilbert's fifth problem. In chapter 1, "Lie Algebras," the structure theory of semi-simple Lie algebras in characteristic zero is presented, following the ideas of Killing and Cartan. Chapter 2, "The Structure of Locally Compact Groups," deals with the solution of Hilbert's fifth problem given by Gleason, Montgomery, and Zippin in 1952.

The Journal of Chemical Physics

Scientific and Technical Aerospace Reports

Energy Research Abstracts

The Language of Physics

A Foundation for University Study

Oxford University Press Introducing physics in the language of mathematics and providing revision of the mathematical techniques and physical concepts, this text also features instructive questions with full solutions and is intended for students starting, or preparing for, the study of physical science or engineering at university.

General Catalogue of Printed Books

Ten-year Supplement, 1956-1965

Government Reports Annual Index

Understanding Physics

Wiley This unique book places emphasis on the understanding of the material presented by adopting a reflective approach towards the scientific method used. Knowledge of algebra, geometry and trigonometry is required however, the authors introduce more advanced mathematical methods in the context of the physical problems which are used for analysis. Modern physics topics, including quantum mechanics and relativity are introduced early and are integrated with more "classical" material from which they have evolved.

IIT JEE Physics (1978 to 2018: 41 Years) Topic-wise Complete Solutions

PsiPhiETC "Bring conceptual clarity and develop the skills to approach any unseen problem, step by step." - HC Verma "Great Book to read and understand! Quality explanations and methodical approach separates this book from the rest. A clear winner in its category." -Review on Amazon "Must have book for every IIT JEE aspirant! There are many solution books available in the market but this book is a class apart. Solutions are explained in detail. In many questions there are extra points which are beneficial for aspirants." - Review on Amazon Written by IITians, foreword by Dr HC Verma and appreciated by students as well as teachers. Two IITian have worked together to provide a high quality Physics problem book to Indian students. It is an indispensable collection of previous 41 years IIT questions and their illustrated solutions for any serious aspirant. The success of this work lies in making the readers capable to solve complex problems using few basic principles. The readers are also asked to attempt variations of the solved problems to help them understand the concepts better. The students can use the book as a readily available mentor for providing hints or complete solutions as per their needs. Key features of the book are: - Concept building by problem solving. The solutions reveals all the critical points. - 1400+ solved problems from IIT JEE. The book contains all questions and their solutions. - Topic-wise content arrangement to enables IIT preparation with school education. - Promotes self learning. Can be used as a readily available mentor for solutions.

Science Reports of the Yokohama National University

Yokohama Kokuritsu Daigaku Rika Kiyō. Dai 1-ruī, Sūgaku, Butsurigaku, Kagaku. Mathematics, physics, chemistry. Section I

Capitalist Nigger

The Road To Success – A Spider Web Doctrine

Jonathan Ball Publishers Capitalist Nigger is an explosive and jarring indictment of the black race. The book asserts that the Negroid race, as naturally endowed as any other, is culpably a non-productive race, a consumer race that depends on other communities for its culture, its language, its feeding and its clothing. Despite enormous natural resources, blacks are economic slaves because they lack the 'devil-may-care' attitude and the 'killer instinct' of the Caucasian, as well as the spider web mentality of the Asian. A Capitalist Nigger must embody ruthlessness in pursuit of excellence in his drive towards achieving the goal of becoming an economic warrior. In putting forward the idea of the Capitalist Nigger, Chika Onyeani charts a road to success whereby black economic warriors employ the 'Spider Web Doctrine' – discipline, self-reliance, ruthlessness – to escape from their victim mentality. Born in Nigeria, Chika Onyeani is a journalist, editor and former diplomat.

The Future of Nuclear Structure: Challenges and Opportunities in the Microscopic Description of Nuclei

Frontiers Media SA

Science Fiction by Scientists

An Anthology of Short Stories

Springer This anthology contains fourteen intriguing stories by active research scientists and other writers trained in science. Science is at the heart of real science fiction, which is more than just westerns with ray guns or fantasy with spaceships. The people who do science and love science best are scientists. Scientists like Isaac Asimov, Arthur C. Clarke, and Fred Hoyle wrote some of the legendary tales of golden age science fiction. Today there is a new generation of scientists writing science fiction informed with the expertise of their fields, from astrophysics to computer science, biochemistry to rocket science, quantum physics to genetics, speculating about what is possible in our universe. Here lies the sense of wonder only science can deliver. All the stories in this volume are supplemented by afterwords commenting on the science underlying each story.

Partial Differential Equations

An Introduction

John Wiley & Sons Partial Differential Equations presents a balanced and comprehensive introduction to the concepts and techniques required to solve problems containing unknown functions of multiple variables. While focusing on the three most classical partial differential equations (PDEs)—the wave, heat, and Laplace equations—this detailed text also presents a broad practical perspective that merges mathematical concepts with real-world application in diverse areas including molecular structure, photon and electron interactions, radiation of electromagnetic waves, vibrations of a solid, and many more. Rigorous pedagogical tools aid in student comprehension; advanced topics are introduced frequently, with minimal technical jargon, and a wealth of exercises reinforce vital skills and invite additional self-study. Topics are presented in a logical progression, with major concepts such as wave propagation, heat and diffusion, electrostatics, and quantum mechanics placed in contexts familiar to students of various fields in science and engineering. By understanding the properties and applications of PDEs, students will be equipped to better analyze and interpret central processes of the natural world.

Numerical Methods and Optimization in Finance

Academic Press Computationally-intensive tools play an increasingly important role in financial decisions. Many financial problems—ranging from asset allocation to risk management and from option pricing to model calibration—can be efficiently handled using modern computational techniques. Numerical Methods and Optimization in Finance presents such computational techniques, with an emphasis on simulation and optimization, particularly so-called heuristics. This book treats quantitative analysis as an essentially computational discipline in which applications are put into software form and tested empirically. This revised edition includes two new chapters, a self-contained tutorial on implementing and using heuristics, and an explanation of software used for testing portfolio-selection models. Postgraduate students, researchers in programs on quantitative and computational finance, and practitioners in banks and other financial companies can benefit from this second edition of Numerical Methods and Optimization in Finance. Introduces numerical methods to readers with economics backgrounds Emphasizes core simulation and optimization problems Includes MATLAB and R code for all applications, with sample code in the text and freely available for download

Mathematics for Finance

An Introduction to Financial Engineering

Springer This textbook contains the fundamentals for an undergraduate course in mathematical finance aimed primarily at students of mathematics. Assuming only a basic knowledge of probability and calculus, the material is presented in a mathematically rigorous and complete way. The book covers the time value of money, including the time structure of interest rates, bonds and stock valuation; derivative securities (futures, options), modelling in discrete time, pricing and hedging, and many other core topics. With numerous examples, problems and exercises, this book is ideally suited for independent study.

Knot Theory and Its Applications

Springer Science & Business Media This book introduces the study of knots, providing insights into recent applications in DNA research and graph theory. It sets forth fundamental facts such as knot diagrams, braid representations, Seifert surfaces, tangles, and Alexander polynomials. It also covers more recent developments and special topics, such as chord diagrams and covering spaces. The author avoids advanced mathematical terminology and intricate techniques in algebraic topology and group theory. Numerous diagrams and exercises help readers understand and apply the theory. Each chapter includes a supplement with interesting historical and mathematical comments.