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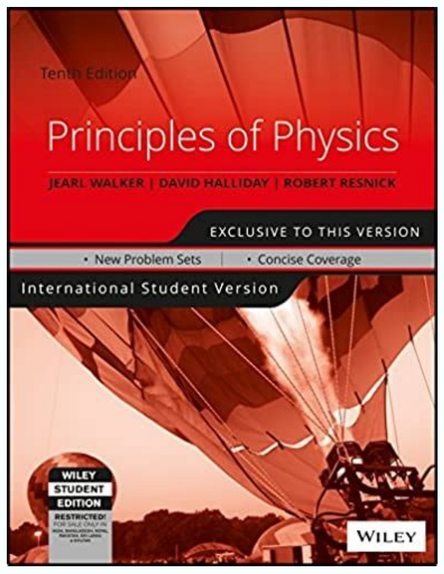

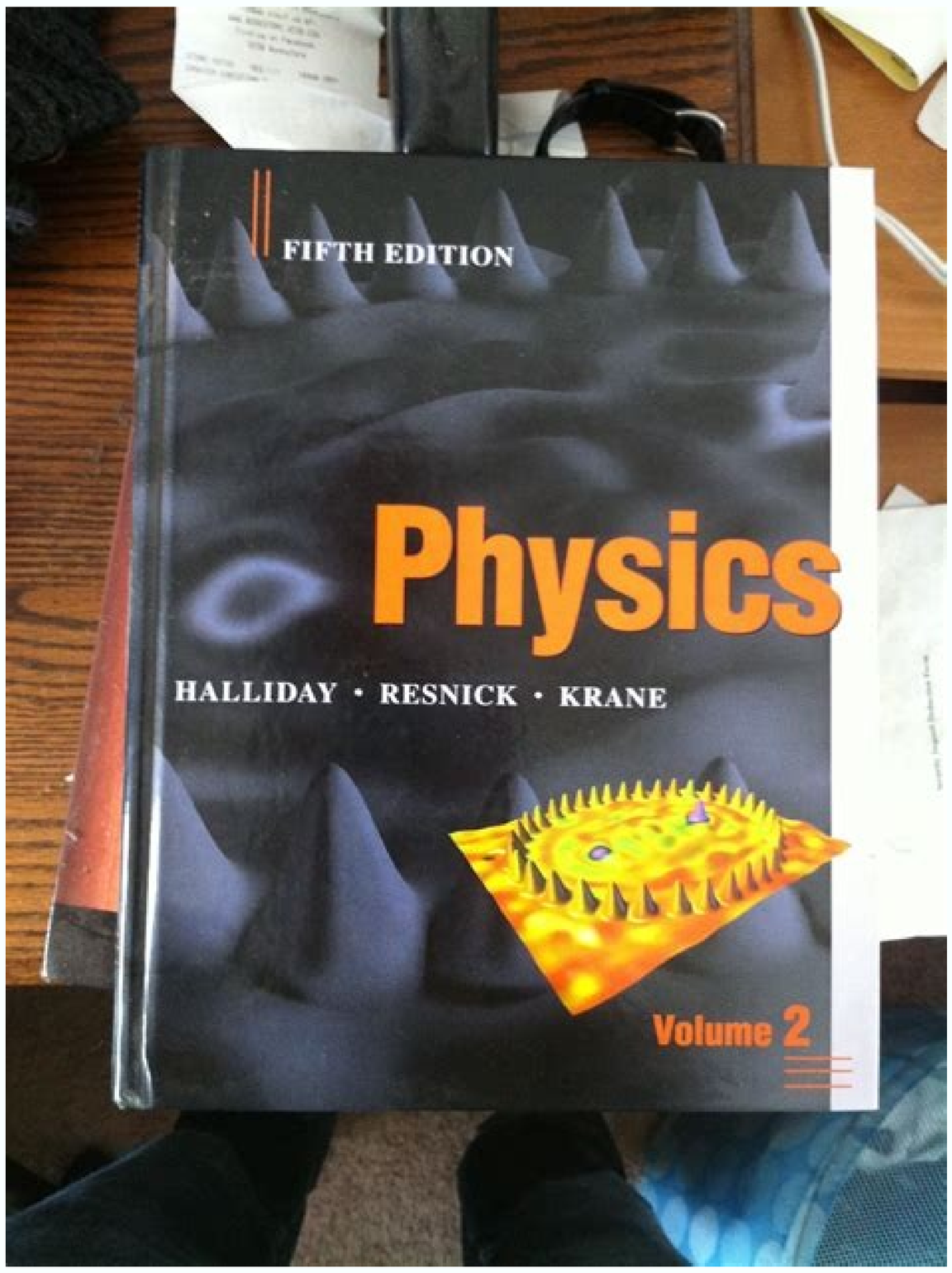

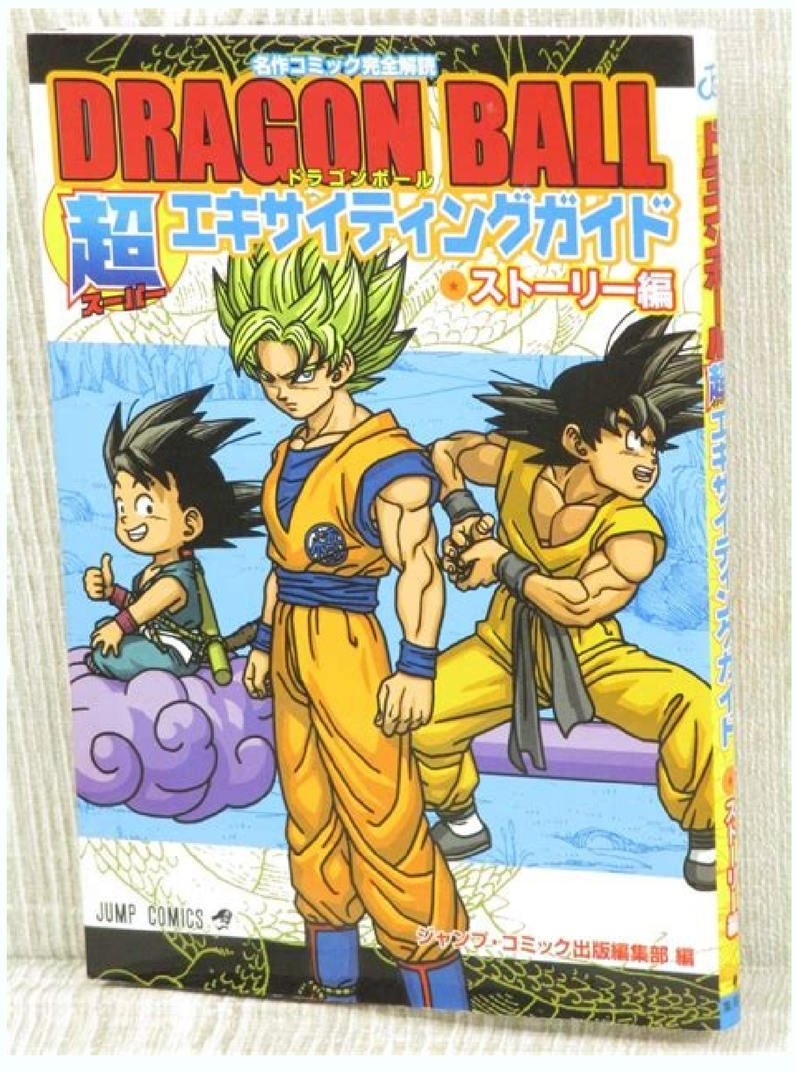

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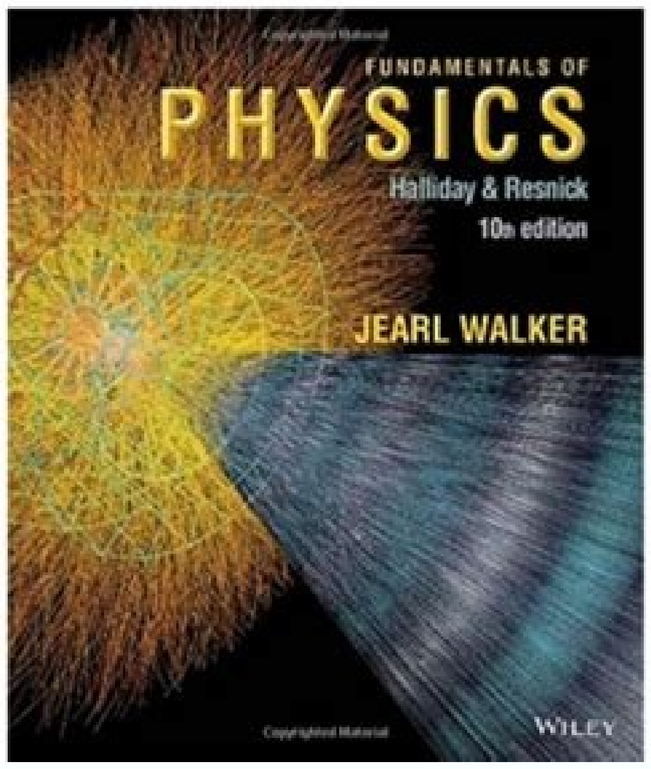

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You will learn about quantization of light, formalism to describe quantum states of light without any classical analogue, and observables allowing one to demonstrate typical quantum properties of these states. Einstein's Astrophysical Messengers Louisiana State University via World Science U Gabriela González's team at LIGO uses ground-based experiments to search for gravitational waves produced by black holes. Understanding Modern Physics I: Relativity and Cosmology The Hong Kong University of Science and Technology via Coursera Course Overview: The 20th century was known as the century of physics. Cosmic Rays, Dark Matter, and the Mysteries of the Universe Waseda University via edX Join us on a unique exploration of one of the universe's deepest mysteries: cosmic rays Plasma Physics: Applications École Polytechnique Fédérale de Lausanne via edX Learn about plasma applications from nuclear fusion powering the sun, to making integrated circuits, to generating electricity. 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They are also a historical record of Feynman's 1961–64 undergraduate physics lectures, a course required of all Caltech freshmen and sophomores regardless of their majors. Electrodynamics: Electric and Magnetic Fields Korea Advanced Institute of Science and Technology via Coursera This course is a continuation of Electrodynamics: An Introduction and Electrodynamics: Analysis of Electric Fields. In this view, the meaning of temperature, thermodynamic pressure and chemical potential are especially clear and easy to understand. 8.EFTx is a graduate course on Effective Field Theory (EFT), which provides a fundamental framework to describe physical systems with quantum field theory. The Finite Element Method for Problems in Physics University of Michigan via Coursera This course is an introduction to the finite element method as applicable to a range of problems in physics and engineering sciences. ★★★★★ (1 rating) Fundamentals of Macroscopic and Microscopic Thermodynamics University of Colorado Boulder via Coursera Course 1 first explores the basics of both macroscopic and microscopic thermodynamics from a postulatory point of view. More specifically, the following questions are addressed: – What are the concepts of particle physics and how are they implemented? Astrophysics: The Violent Universe Australian National University via edX Explore the deadliest places in the universe, from black holes to supernovae. Astro 101: Black Holes University of Alberta via Coursera What is a black hole? Electromagnetic Fields in 3-D AICTE via Swayam This course related to electromagnetic fieldsis useful for many universities' syllabus. On water of course, but also in the air as you hear a plane, and under your feet during an earthquake certainly. In this two-semester course, basic principles are examined. ★★★★★ (7 ratings) Quantum Mechanics for Scientists and Engineers 2 Stanford University via edX This course covers key topics in the use of quantum mechanics in many modern applications in science and technology, introduces core advanced concepts such as spin, identical particles, the quantum mechanics of light, the basics of quantum information, and the interpretation of quantum mechanics, and covers the major ways in which quantum mechanics is written and used in modern practice. This course is based on introductory college-level material and the 2016 AP Physics I and II curriculum. Learning @ Scale 2022: Investigating large-scale, technology-mediated education (June 1–3 in New York) AD The Challenging Search for Elusive Dark Matter The University of Texas at Austin via World Science U Astrophysicist Katherine Freese explores the origins and composition of our universe, a quarter of which is thought to be comprised of dark matter, and how scientists are searching for the elusive particles that might comprise dark matter. Thermodynamics & Kinetics (Spring 2008) Massachusetts Institute of Technology via MIT OpenCourseWare This subject deals primarily with equilibrium properties of macroscopic systems, basic thermodynamics, chemical equilibrium of reactions in gas and solution phase, and rates of chemical reactions. Fundamental Lessons From String Theory Harvard University via World Science U Cumrun Vafa, together with fellow world-renowned string theorist Andrew Strominger, developed a new way to calculate black hole entropy in the language of string theory. ★★★★★ (18 ratings) Special Relativity Stanford University via YouTube In this course, Professor Susskind takes a close look at the special theory of relativity and also at classical field theory. ★★★★★ (1 rating) More on Class Central: 100+ Quantum Mechanics courses. Join Professor Strominger for an overview of how string theory has allowed us to understand how, and where, black holes store information. ★★★★★ (6 ratings) The Black Hole Information Paradox Ohio State University via World Science U String theorist Samir Mathur has been working for many years on this yet-unsolved problem and has developed a radical proposal to the so-called information paradox. General Relativity (Spring 2020) Massachusetts Institute of Technology via MIT OpenCourseWare Course covers the basic principles of Einstein's general theory of relativity, differential geometry, experimental tests of general relativity, black holes, and cosmology. ★★☆☆☆ (1 rating) Exploring Light: Hands-on Activities and Strategies for Teachers Exploratorium via Coursera This is an Exploratorium teacher professional development course taught by Teacher Institute staff, open to any science teacher (particularly middle or high school level) and science enthusiast. ★★★★★ (7 ratings) Introduzione alla fisica sperimentale: meccanica, termodinamica Politecnico di Milano via Polimi OPEN KNOWLEDGE Il corso affronta le tematiche della meccanica e della termodinamica partendo dall'applicazione del metodo sperimentale, per prepararsi al meglio all'ingresso all'università. Optical Efficiency and Resolution University of Colorado Boulder via Coursera Optical instruments are how we see the world, from corrective eyewear to medical endoscopes to cell phone cameras to orbiting telescopes. ★★★★☆ (11 ratings) Mécanique quantique École Polytechnique via Coursera Comme l'ont montré de plus en plus d'expériences effectuées dès le début du vingtième siècle, les lois de la mécanique newtonienne cessent d'être valables dès qu'on tente de les appliquer à très petite échelle, celle des atomes, des molécules ou des noyaux. More than 80% of matter in the Universe is mysterious Dark Matter, which made stars and galaxies to form. Feynman Lectures on Physics California Institute of Technology via Independent These three volumes are a self-contained pedagogical treatise. Statistical Thermodynamics: Molecules to Machines Carnegie Mellon University via Coursera Modern engineering research focuses on designing new materials and processes at the molecular level. ★★★★★ (3 ratings) Fluid Mechanics I Cal Poly Pomona via YouTube ★★★★★ (4 ratings) Fundamentals of Fluid-Solid Interactions École Polytechnique via Coursera What is fluid-solid interactions ? ★★★★★ (1 rating) Theoretical Physics Online Courses Effective Field Theory Massachusetts Institute of Technology via edX This course will be taught as a Live Archived Course from February 3 to May 28, 2020. Whatever your interest in physics — whether it's introductory physics, Einstein's relativity, or simple curiosity — dive in and increase your understanding of the basic building blocks of the world around us. Intro to Physics via Udacity Study physics abroad in Europe — virtually! Learn the basics of physics on location in Italy, the Netherlands and the UK, by answering some of the discipline's major questions from over the last 2000 years. ★★★★★ (4 ratings) AP® Physics 2 – Part 1: Fluids and Thermodynamics Rice University via edX The first course in a comprehensive series designed to prepare you for the AP Physics 2 exam, focusing on thermodynamics and fluids. ★★★★☆ (16 ratings) Classical Mechanics Online Courses Classical Mechanics Massachusetts Institute of Technology via edX Covers the basics of Newtonian mechanics, fluid mechanics, kinetic gas theory and thermodynamics in addition to exploring other real-world phenomena. ★★★★★ (3 ratings) Introduzione alla fisica sperimentale: meccanica, termodinamica Politecnico di Milano via Coursera Il corso affronta le tematiche della meccanica e della termodinamica, fornendo le nozioni che risultano utili per affrontare insegnamenti di fisica di base, a partire dalla comprensione del metodo sperimentale per poi mostrare le grandezze fondamentali e loro relazioni in tali ambiti, imparando a identificarle, distinguerle e utilizzarle. © 1996-2015, Amazon.com, Inc. Animations in this course are self-explanatory. Find out more about particle physics and understanding the universe. In the past 120 years, concepts such as space, time, energy, entropy and particles were understood to much deeper levels. Effective Field Theory (Spring 2013) Massachusetts Institute of Technology via MIT OpenCourseWare Effective field theory is a fundamental framework to describe physical systems with quantum field theory. ★★★★☆ (17 ratings) Introduction à l'astrophysique École Polytechnique Fédérale de Lausanne via edX Ce cours décrit les principaux concepts physiques utilisés en astrophysique. ★★★★★ (2 ratings) The Edges of the Universe Harvard University via World Science U Breakthrough Prize winner Andrew Strominger and string theorist Cumrun Vafa rediscovered the elusive quantity of black hole entropy in a groundbreaking calculation. ★★★★★ (3 ratings) Introduction to Electromagnetism NPTEL via YouTube This course introduces students to handling electromagnetic theory using vector calculus. ★★★★★ (2 ratings) Thermodynamics and Statistical Mechanics Online Courses Stanford ME356 Hypersonic Aerothermodynamics Spring 2020-2021 Stanford University via YouTube This playlist contains the 19 video lectures of the Stanford ME356 Hypersonic Aerothermodynamics graduate class offered online during the Spring quarters of 2020 and 2021 because of the covid lockdown. ★★★★★ (1 rating) New Ideas About Dark Matter University of Pennsylvania via World Science U Physicist Justin Khoury explores how quantum effects in dark matter could produce non-Newtonian gravitational force within and between galaxies, ultimately providing a hypothesis for how the observed structure of the universe might have arisen. ★★★★★ (4 ratings) Understanding Modern Physics III: Simplicity and Complexity The Hong Kong University of Science and Technology via Coursera The 20th century was known as the century of physics. Applications in Communication Acoustics RWTH Aachen University via edX Explore the different system components involved in acoustic communication using a representative set of practical applications. This enables students to handle problems that are more complicated than they are used to from their school days. Electricity and Magnetism: Magnetic Fields and Forces Massachusetts Institute of Technology via edX Learn how charges create and move in magnetic fields and how to analyze simple DC circuits in this introductory-level physics course. 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Quantum Physics III (Spring 2018) Massachusetts Institute of Technology via MIT OpenCourseWare This course introduces some of the important model systems studied in contemporary physics, including two-dimensional electron systems, the fine structure of hydrogen, lasers, and particle scattering. ★★★★☆ (14 ratings) Electricity & Magnetism Rice University via edX PHYS 102x serves as an introduction to electromagnetism, including charge, electric and magnetic forces, induction, current, and resistance. ★★★★★ (1 rating) Mastering Quantum Mechanics Part 2: Quantum Dynamics Massachusetts Institute of Technology via edX Learn about the Heisenberg uncertainty principle, quantum dynamics and two-state systems. You will learn about reflection in a plane mirror, number of images formed by two plane mirrors, velocity in plane mirror, spherical mirrors, image formation by concave and convex mirrors for different positions of objects AP® Physics 2 – Part 3: Optics and Modern Physics Rice University via edX The third course in a comprehensive series designed to prepare you for the AP Physics 2 exam, focusing on optics and modern physics. We use a new way to teach quantum for undergraduates by focusing on conceptual ideas and operator manipulations. ★★★★★ (4 ratings) Fundamentals of Communication Acoustics RWTH Aachen University via edX In this course, we will cover the fundamentals of communication acoustics, which is the way sounds travel from a source through a channel to a receiver. Introduction to Sound and Acoustic Sketching University St. Joseph via Kadenze Introduction to Sound and Acoustic Sketching will offer tools and practices to inspire students to approach sound and acoustics as elements in the sketching stage of a design project. Students would be able to organize their knowledge about force and motion, work-energy, impulse-momentum in view of Newton's 2nd law and its integration over time and displacement. ★★★★☆ (1 rating) Exploring concepts of Optics using Wolfram notebook Coursera Project Network via Coursera Exploring concepts of Optics using Wolfram notebook Quantum Optics 1 : Single Photons École Polytechnique via Coursera This course gives you access to basic tools and concepts to understand research articles and books on modern quantum optics. Electrodynamics: Analysis of Electric Fields Korea Advanced Institute of Science and Technology via Coursera This course is a continuation of Electrodynamics: An Introduction. 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Electromagnetic Theory NPTEL via YouTube The course begins with a review of vector calculus which is extensively used in the course. String Theory and Holographic Duality (Fall 2014) Massachusetts Institute of Technology via MIT OpenCourseWare This course focuses on holographic duality as a novel method of approaching and connecting a range of diverse subjects, including quantum gravity / black holes, QCD at extreme conditions, exotic condensed matter systems, and quantum information. Sounds and Acoustics Online Courses Physics-Based Sound Synthesis for Games and Interactive Systems Stanford University via Kadenze This course introduces the basics of Digital Signal Processing and computational acoustics, motivated by the vibrational physics of real-world objects and systems. ★★★★★ (22 ratings) From the Big Bang to Dark Energy The University of Tokyo via Coursera We have learned a lot recently about how the Universe evolved in 13.7 billion years since the Big Bang. AP® Physics 2 – Part 2: Electricity and Magnetism Rice University via edX The second course in a comprehensive series designed to prepare you for the AP Physics 2 exam, focusing on electricity and magnetism. Geology is plagued by the problem of in accessibility; they see only the tiny fraction of the rocks that composes the Earth. Explore Einstein's theories of Relativity using Wolfram Coursera Project Network via Coursera Explore Einstein's theories of Relativity using Wolfram -The theory of relativity usually encompasses two interrelated theories by Albert Einstein: special relativity and general relativity, proposed and published in 1905 and 1915, respectively. Exploring the Warped Universe Massachusetts Institute of Technology via World Science U On September 14, 2015, the LIGO gravitational wave detectors made the first confirmed detection of a gravitational wave. The treatment is mathematical, but only for the purpose of clarifying the formulation. Follow Vafa as he guides you through some of the more incredible things we have learned since string theory's inception. Electricity and Magnetism: Electrostatics Massachusetts Institute of Technology via edX Learn how charges interact with each other and create electric fields and electric potential landscapes in this introductory-level physics course. Subjects For your convenience, we've broken down the list by topic. ★★★★★ (3 ratings) Optics Online Courses Atomic and Optical Physics II (Spring 2013) Massachusetts Institute of Technology via MIT OpenCourseWare This is the second of a two-semester subject sequence beginning with Atomic and Optical Physics I (8.421) that provides the foundations for contemporary research in selected areas of atomic and optical physics. Introductory Physics Online Courses How Things Work: An Introduction to Physics University of Virginia via Coursera An introduction to physics in the context of everyday objects. Il est proposé à l'EPFL aux étudiants de 2eme année de Bachelor en physique. ★★★★★ (1 rating) The Discovery of the Higgs Boson University of Edinburgh via FutureLearn Should we be excited about the Higgs boson? Fortunately, Class Central has been keeping track of them for you. ★★★★★ (1 rating) Statistical Mechanics I: Statistical Mechanics of Particles (Fall 2013) Massachusetts Institute of Technology via MIT OpenCourseWare Statistical Mechanics is a probabilistic approach to equilibrium properties of large numbers of degrees of freedom. What would happen if you fell into one? Electricity and Magnetism, Part 1 Rice University via edX PHYS 102.1x serves as an introduction to charge, the electric field, the electric potential, current, resistance, and DC circuits with resistors and capacitors. Geometrical Anatomy of Theoretical Physics Friedrich–Alexander University Erlangen–Nürnberg via YouTube Electromagnetism Online Courses Fundamentos de Electromagnetismo para Ingeniería Universitat Politècnica de València via edX Trataremos las causas y las leyes de la interacción electromagnética. And as the field continues to grow, so does the number of physics online courses offered by the best universities around the world. or its affiliates Course Report Facebook Twitter Envelope 2 From the deployment of the striking James Webb Space Telescope, NASA's flagship astrophysics project, to the expansion of ATLAS, CERN's ongoing experiment to uncover the mysteries of subatomic particles, the field of physics is bubbling with activity. ★★★★★ (1 rating) Astrophysics Online Courses Astronomy: Exploring Time and Space University of Arizona via Coursera This course is designed for anyone who is interested in learning more about modern astronomy. We will also look at different system components involved in acoustic communication. Here, we will cover different methods of calculating an electric field. ★★★★☆ (4 ratings) Special Theory of Relativity NPTEL via YouTube This is a course on Special Theory of Relativity, which revolutionized our concept of physics in the last century by unifying concepts of space and time, electricity and magnetism and mass and energy. Mastering Quantum Mechanics Part 1: Wave Mechanics Massachusetts Institute of Technology via edX Learn the foundations of quantum mechanics, including wave mechanics, spin one-half states, linear algebra and bra-ket notation of Dirac. Join physicist Nergis Mavalvala as she takes you on an incredible journey from LIGO's humble beginnings to its groundbreaking discovery. ★★★★★ (1 rating) Special Relativity via Brilliant Get up to (light) speed on Einstein's theory of relativity. ★★★★★ (98 ratings) Quantum Mechanics Georgetown University via edX Learn the quantum mechanics needed to prepare you for the second quantum revolution (focused on quantum sensing). Non-Equilibrium Applications of Statistical Thermodynamics University of Colorado Boulder via Coursera Course 5 of Statistical Thermodynamics explores three different applications of non-equilibrium statistical thermodynamics. Electrodynamics: An Introduction Korea Advanced Institute of Science and Technology via Coursera The depth and breadth of electromagnetism, the foundation for many fields including materials science, electrical engineering, and physical chemistry, requires a long, steep, and steady learning curve. How are they related to stars? 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Veremos el campo eléctrico, el magnético y la inducción magnética. Metamorphic Petrology & Thermodynamics Doctor Harisingh Gour Vishwavidyalaya, Sagar via Swayam This course is a basic to advance introduction for the post graduate students in petrology. ★★★★★ (2 ratings) Introduction to Nuclear Engineering and Ionizing Radiation (Fall 2016) Massachusetts Institute of Technology via MIT OpenCourseWare This course provides an introduction to nuclear science and its engineering, as well as industrial and medical applications of nuclear science. ★★★★★ (4 ratings) Exploring Quantum Physics University of Maryland, College Park via Coursera An introduction to quantum physics with emphasis on topics at the frontiers of research, and developing understanding through exercise. ★★★★★ (2 ratings) Communication Acoustics RWTH Aachen University via edX Learn about the various ways we hear and perceive sound and how to improve technology and products for better communication. Astrophysics: Cosmology Australian National University via edX Exploring the origin, fate and nature of our universe. Electrodynamics Korea Advanced Institute of Science and Technology via Coursera If you want to apply electrodynamics to your materials research project, this Specialization will help you do so. ★★★★★ (1 rating) Mastering Quantum Mechanics Part 3: Entanglement and Angular Momentum Massachusetts Institute of Technology via edX Learn about entanglement and Bell inequalities, representations and addition of angular momentum, and central potentials. For a mathematical introduction to Special Relativity check out Special Relativity. Curved Spacetime in General Relativity PBS via YouTube Special Theory of Relativity NPTEL via YouTube In this course we will explore and explain many of the (often) counter-intuitive but fundamental principles of the Special Theory. ★★★★★ (1 rating) Quantum Mechanics and Quantum Computation via edX A simple conceptual introduction to quantum mechanics and quantum computation. ★★★★☆ (2 ratings) Gravitational Physics via Brilliant Explore Newton's law of gravity and unpack its universe of consequences.

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