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Tour of the Electromagnetic Spectrum

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Acoustic and Electromagnetic Waves

Oxford University Press, USA From a mathematical point of view, acoustics and electromagnetism exhibit similar phenomena and are tackled with the same kind of technique. Jones's exhaustive study is unique in providing a unified treatment of the two fields, bringing out their common and disparate features and showing how they cross-fertilize one another. The book is designed so that the reader with a familiarity with either Maxwell's Equations or the equation of sound waves in fluid dynamics can follow the developments in both fields without difficulty. This is a comprehensive treatment which will provide a needed reference for researchers in applied mathematics and mathematical physics but also caters to the student, who is taken up to the frontiers of research with the help of appropriate exercises. Engineers with any sort of mathematical competence, particularly electrical engineers and those concerned with communications technology, will need to have access to it.

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Edexcel AS/A Level Physics Student Guide: Topics 4 and 5

Hachette UK Exam Board: Edexcel Level: AS/A-level Subject: Physics First Teaching: September 2015 First Exam: June 2016 Written by experienced author and teacher, Mike Benn, this student guide for Physics: · Helps you identify what you need to know with a concise summary of the topics examined in the AS and A-level specifications · Consolidates understanding with exam tips and knowledge check questions · Provides opportunities to improve exam technique with sample answers to exam-style questions · Develops independent learning and research skills · Provides the content for generating individual revision notes

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Quizzes & Practice Tests with Answer Key

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Let's Ride a Wave!

Diving into the Science of Light and Sound Waves with Physics

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Fundamentals of Wave Phenomena

Waves are ubiquitous. In approximately all areas of science energy is transferred through the vibrations that make up waves. Examples of wave motion include waves on strings, water waves, seismic waves, sound, all electromagnetic radiation including light, heat, x-rays, etc. We are aware, everyday kinds of waves in water, ropes and springs. There are less evident but equally omnipresent sound waves and electromagnetic waves. How can it make sense to use the same word - "wave" - for all these unrelated miracles? What is it that they all obligate in common? The phony answer exists in the mathematics of wave phenomena. This novel edition covers up-to-date information on some of the foundations of wave phenomena suitable for active researchers in these related fields, and is of particular interest to students, scientists, and working engineers. Wave phenomena appear in a wide variety of physical settings, such as, electrodynamics, quantum mechanics, fluids, plasmas, atmospheric physics, seismology, and so forth. It provides a unified treatment of waves that either occur naturally or can be excited and propagate in various media. This includes both longitudinal and transverse waves. The book covers both mechanical and electrical waves, which are normally covered distinctly because of their differences in physical phenomena. This volume focuses additionally on the similarities of all waves, mechanical or electromagnetic, and consequently allows the reader to formulate an integrated consideration of wave phenomena in its totality.

Sound

A Very Short Introduction

Oxford University Press Sound is integral to how we experience the world, in the form of noise as well as music. But what is sound? What is the physical basis of pitch and harmony? And how are sound waves exploited in musical instruments? In this Very Short Introduction Mike Goldsmith looks at the science of sound and explores sound in different contexts, covering the audible and inaudible, sound underground and underwater, acoustic and electric, and hearing in humans and animals. He also considers the problem of sound out of place - noise and its reduction. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

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Waves and Particles

Two Essays on Fundamental Physics

World Scientific The book consists of two separate parts, the first part is on waves and the second part on particles. In part 1, after describing the awesome power of tsunami and the history of their occurrences, the book turns to the history of explaining phenomena by means of mathematical equations. Then it describes other wave phenomena and the laws governing them: the vibration of strings and drums in musical instruments, the sound waves making them audible, ultrasound and its uses, sonar, and shock waves; electromagnetic waves: light waves, refraction, diffraction, why the sky is blue, the rainbow, and the glory; microwaves and radio

waves: radar, radio astronomy, the discovery of the cosmic microwave background radiation, microwave ovens and how a radio works, lasers and masers; waves in modern physics: the Schrödinger wave function and gravitational waves in general relativity; water waves in the ocean, tides and tidal waves, and the quite different solitary waves, solitons discovered in canals. Finally we return to tsunami and the question of what laws govern them. We conclude that the answer to that question is not quite known yet, but there is ongoing research to solve the riddle. In part 2, the history of the idea of atoms is reviewed, and then the scientific evidence for their existence, with Rutherford's discovery of the atomic nucleus. The investigation of what the nucleus is like follows, including the discovery of the neutron, followed by that of the neutrino — of which there are several different kinds — and the muon as well as the pion. The important work of Paul Dirac is described, as well as the discovery of the positron and other antiparticles. The ways by which particles are discovered, by cloud chambers, bubble chambers, etc. are all explained, followed by the invention of the various machines to accelerate particles to high speeds: the cyclotron, the synchrotron, and the bigger and bigger machines, in the US as well as in Switzerland, including their storage rings. The new terminology of fermions and bosons are explained, followed by the remarkable use of group theory and group representations by matrices, whose unfamiliar algebra is carefully explained.

Contents: Tsunami and other Waves: Introduction to Part I The Story of a Tsunami Science and Mathematics The Sound of Music Electromagnetic Waves Wave Mechanics and Gravitational Waves Water Waves And Back to Tsunami Particles: Introduction to Part II Atoms Nuclear Physics Another New Particle Particle Accelerators An Abundance of New Particles Readership: Academics and students of physics as well as the general public. Keywords: Tsunami; Light Waves; Sound Waves; Radio Waves; Microwaves; Ultrasound; Radio Astronomy; Standing Waves; Overtones; Reverberation; Wave Equation; KdV Equation; Interference; Wave Function; Gravitational Waves; Water Waves; Solitons; Solitary Waves; Waves; Tidal Waves; Tides; Radar; Laser; Maser; Resonance; Echo; Cosmic Background Radiation; CMB; Atoms; Cyclotron; Synchrotron; Accelerators; Cosmic Rays; Bevatron; Cosmotron; SSC; Superconducting Super Collider; Storage Rings; Large Hadron Collider; LHC; Electrostatic Generator; Alpha Particles; Beta Particles; Gamma Rays; Atomic Nucleus; Fermions; Bosons; Exclusion Principle; Quantum Mechanics; QED; Antiparticle; Noether's Theorem; Group Theory; Group Representation; Matrices; Strangeness; Hyperons; Muons; Pions; Kaons; Cloud Chamber; Bubble Chamber; SU(3); Eightfold Way; Omega Minus; Quarks

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(MCQs)

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Waves

A Very Short Introduction

Oxford University Press, USA From sound waves to gravitational waves, and from waves of light to crashing rollers on the ocean, Mike Goldsmith explores the fundamental features shared by all waves in the natural world, and considers the range of phenomena resulting from wave motion, including reflection, diffraction, and polarization in light, and beats and echoes in sound.

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Sound and Light

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My Revision Notes: AQA GCSE (9-1) Physics

Hachette UK Exam Board: AQA Level: GCSE Subject: Physics First Teaching: September 2016 First Exam: Summer 2018 Unlock your students' full potential with these revision guides from our best-selling series My Revision Notes. With My Revision Notes your students can: - Manage their own revision with step-by-step support from experienced teachers with examining experience. - Apply scientific terms accurately with the help of definitions and key words. - Prepare for practicals with questions based on practical work. - Focus on the key points from each topic - Plan and pace their revision with the revision planner. - Test understanding with end-of-topic questions and answers. - Get exam ready with last minute quick quizzes available on the Hodder Education Website.

My Revision Notes: Edexcel International GCSE (9-1) Physics

Hachette UK Target success in Edexcel International GCSE Physics with this proven formula for effective, structured revision; key content coverage is combined with exam-style tasks and practical tips to create a revision guide that students can rely on to review, strengthen and test their knowledge. - Plan and manage a successful revision programme using the topic-by-topic planner - Consolidate subject knowledge by working through clear and focused content coverage - Test understanding and identify areas for improvement with regular 'Now Test Yourself' tasks and answers - Improve exam technique through practice questions, expert tips and examples of typical mistakes to avoid - Get exam ready with extra quick quizzes and answers to the practice questions available online

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