

PHYSICS PART: COMPUTER SCIENCE DATA SCIENCE CLASS: PHYSICS

How Earth is in the Universe

distance = wave speed \times time

wave speed = frequency \times wavelength

Electromotive Energy

energy transferred = power \times time

power = voltage \times current

efficiency = $\frac{\text{energy actually transferred}}{\text{total energy supplied}} \times 100\%$

Expanding Motion

speed = $\frac{\text{distance travelled}}{\text{time taken}}$

acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$

momentum = mass \times velocity

change of momentum = resultant force \times time for which it acts

work done by a force = force \times distance moved in the direction of the force

amount of energy transferred = work done

change in gravitational potential energy = weight \times vertical height difference

kinetic energy = $\frac{1}{2}mv^2$ = mass \times (velocity)²

Electric Circuits

power = voltage \times current

resistance = $\frac{\text{voltage}}{\text{current}}$

$\frac{\text{voltage across primary coil}}{\text{voltage across secondary coil}} = \frac{\text{number of turns in primary coil}}{\text{number of turns in secondary coil}}$

Radioactive Materials

charge = mass \times (speed of light \times 3) (masses)

Ocr Gcse Physics A Mod 7 Specimen

Averil Macdonald



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specifications Built in assessment and differentiation supports students of all abilities and makes progress tracking easy Maths skills and practical skills are developed throughout with ramped practice questions and differentiated learning outcomes

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OCR Physics AS Level Student Book Robert Hutchings, Roger Hackett, 2008-01-21 A student resource that supports readers through the transition from GCSE to Further Education It integrates How Science Works throughout to help students understand the underlying principles of science It includes worked examples and exam style questions that demonstrate how to approach complex questions

Gateway Science Pauline Anning, 2007-07-05 Reflecting the layout of the Gateway Science OCR specification this book summarizes items at the start of each section to aid revision It has personalised learning activities that enable students to review what they have learnt It also features questions that cover the QCA science criteria 3 6 How Science Works

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