

PHYSICS PART: COMPUTER SCIENCE DATA SCIENCE CLASS: PHYSICS

How Earth 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 mass)²

Ocr 21st Century Science Physics 2paper

M.G. Hocking



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