

PHYSICS PART: COMPUTER-BASED DATA SHEET (Group Relationships)

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

Expressing 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 May Paper

RJ Alexander



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