
AQA a level physics paper 1 100% SOLUTIONS REVISED 2023//2024

What is meant by work function (2) - ANSWER Minimum energy required by an electron to escape from (1) a metal surface (1)

What is meant by ionisation energy? (2) - ANSWER Minimum energy required to remove an electron from an atom (1) from the ground state (1)

Why do emitted electrons have a kinetic energy that varies up to a maximum value? (4)
- ANSWER Energy of a photon is fixed/constant (1)
Energy is required for electrons to overcome work function ϕ (1)
Electrons deeper into/below the surface of the metal require more energy to overcome work function and therefore have less KE(1)
Maximum KE = Energy of photon - work function ϕ (1)

Explain how (bright ring) diagram is evidence of the wave-particle duality of electrons? -
ANSWER Diffraction pattern maxima/minima (bright and dark areas) (1)
Diffraction is a property of waves- proves wave-behaviour of electrons (1)

What is meant by the ground state? - ANSWER The lowest energy state of an atom

Explain the difference between excitation and ionisation (2) - ANSWER An electron receives a discrete amount of energy for BOTH (1)
Excitation promotes an electron to a higher energy level
Ionisation is when an electron receives enough energy to leave the atom

June 2013 Physics Additional Paper Aqa

Brendan G. Carr



June 2013 Physics Additional Paper Aqa:

The book delves into June 2013 Physics Additional Paper Aqa. June 2013 Physics Additional Paper Aqa is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into June 2013 Physics Additional Paper Aqa, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of June 2013 Physics Additional Paper Aqa
 - Chapter 3: June 2013 Physics Additional Paper Aqa in Everyday Life
 - Chapter 4: June 2013 Physics Additional Paper Aqa in Specific Contexts
 - Chapter 5: Conclusion
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