

For use in exams from the June 2017 Series onwards

### DATA - FUNDAMENTAL CONSTANTS AND VALUES

Quantity	Symbol	Value	Units
speed of light in vacuo	$c$	$3.00 \times 10^8$	$\text{m s}^{-1}$
permeability of free space	$\mu_0$	$4\pi \times 10^{-7}$	$\text{H m}^{-1}$
permittivity of free space	$\epsilon_0$	$8.85 \times 10^{-12}$	$\text{F m}^{-1}$
magnitude of the charge of electron	$e$	$1.60 \times 10^{-19}$	C
the Planck constant	$h$	$6.63 \times 10^{-34}$	J s
gravitational constant	$G$	$6.67 \times 10^{-11}$	$\text{N m}^2 \text{kg}^{-2}$
the Avogadro constant	$N_A$	$6.02 \times 10^{23}$	$\text{mol}^{-1}$
molar gas constant	$R$	8.31	$\text{J K}^{-1} \text{mol}^{-1}$
the Boltzmann constant	$k$	$1.38 \times 10^{-23}$	$\text{J K}^{-1}$
the Stefan constant	$\sigma$	$5.67 \times 10^{-8}$	$\text{W m}^{-2} \text{K}^{-4}$
the Wien constant	$\alpha$	$2.90 \times 10^{-3}$	m K
electron rest mass (equivalent to $5.5 \times 10^{-4}$ u)	$m_e$	$9.11 \times 10^{-31}$	kg
electron charge/mass ratio	$\frac{e}{m_e}$	$1.76 \times 10^{11}$	$\text{C kg}^{-1}$
proton rest mass (equivalent to 1.00728 u)	$m_p$	$1.67(3) \times 10^{-27}$	kg
proton charge/mass ratio	$\frac{e}{m_p}$	$9.58 \times 10^7$	$\text{C kg}^{-1}$

# A Level Physics

**Jicheng Xie**



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## **Table of Contents A Level Physics**

1. Understanding the eBook A Level Physics
  - The Rise of Digital Reading A Level Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying A Level Physics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an A Level Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from A Level Physics
  - Personalized Recommendations

- A Level Physics User Reviews and Ratings
- A Level Physics and Bestseller Lists
- 5. Accessing A Level Physics Free and Paid eBooks
  - A Level Physics Public Domain eBooks
  - A Level Physics eBook Subscription Services
  - A Level Physics Budget-Friendly Options
- 6. Navigating A Level Physics eBook Formats
  - ePub, PDF, MOBI, and More
  - A Level Physics Compatibility with Devices
  - A Level Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of A Level Physics
  - Highlighting and Note-Taking A Level Physics
  - Interactive Elements A Level Physics
- 8. Staying Engaged with A Level Physics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers A Level Physics
- 9. Balancing eBooks and Physical Books A Level Physics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection A Level Physics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine A Level Physics
  - Setting Reading Goals A Level Physics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of A Level Physics
  - Fact-Checking eBook Content of A Level Physics

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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