

Exam-style questions and sample answers have been written by the authors. In examinations, the way marks are awarded may be different.

Coursebook answers

Chapter 21

Science in context guidance

There are a number of issues with harnessing lightning:

- It is difficult to predict when the lightning will strike. This makes it an unreliable power source.
- It is difficult to know where the lightning will strike. Where would you put the lightning rods required to harness it?
- Lightning provides (very short) bursts of energy. This energy would have to be somehow stored (giant capacitors?) so the energy can be used appropriately (and over a suitable period of time).

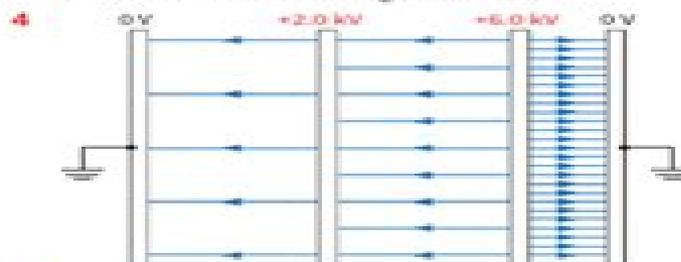
Although the energy released during a lightning strike is huge, it is over in a very short amount of time. 3 000 000 strikes a day would mean around 35 strikes / second on average, or an average power output of 350 MW. Even the smallest nuclear power plants have an output of around 500 MW, so even harnessing all of the lightning on the planet would provide a fairly insignificant amount of electrical energy.

Self-assessment questions

- 1
- Diagram I shows positive charges repelling; the arrow heads point away from the charges.
 - Diagram III shows negative charges repelling; the arrow heads point towards the charges.
 - Diagram II shows opposite charges attracting; the positive charge is on the right.



- 3 The field strength is greatest at the top (pointed) part of the building. The electric field lines are closest together there.



- 5 electric field strength $E = F/Q = 150/20 \times 10^{-1} = 7500 \text{ N C}^{-1}$ downwards
- 6 electric field strength $E = V/d = 1000/0.40 = 2500 \text{ V m}^{-1} = 2500 \text{ N C}^{-1}$
- 7 electric field strength $E = F/Q = 8 \times 10^{-11} / 1.6 \times 10^{-17} = 5000 \text{ V m}^{-1}$ or N C^{-1}
- 8
- Rearrange $E = V/d$ so that voltage to cause sparks is given by $V = Ed = 40\,000 \times 4 = 160\,000 \text{ V}$. This is only an estimate as the formula only really works for parallel plates; using approximations like this is a good way to find a rough estimate.
 - Rearrange $E = V/d$ so that minimum distance is given by $d = V/E = 325/40\,000 = 0.008 \text{ cm} = 0.08 \text{ mm}$.
 - Rearrange $E = V/d$ so that voltage to cause lightning is given by $V = Ed = 40\,000 \times 10\,000 = 400 \text{ MV}$ (remember that the field strength was given in volts per centimetre)

Mastering Physics Answers Chapter 21

L Reisser



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Mastering Quantum Mechanics Barton Zwiebach, 2022-04-12 A complete overview of quantum mechanics covering essential concepts and results theoretical foundations and applications This undergraduate textbook offers a comprehensive overview of quantum mechanics beginning with essential concepts and results proceeding through the theoretical foundations that provide the field's conceptual framework and concluding with the tools and applications students will need for advanced studies and for research Drawn from lectures created for MIT undergraduates and for the popular MITx online course Mastering Quantum Mechanics the text presents the material in a modern and approachable manner while still including the traditional topics necessary for a well rounded understanding of the subject As the book progresses the treatment gradually increases in difficulty matching students increasingly sophisticated understanding of the material Part 1 covers states and probability amplitudes the Schrödinger equation energy eigenstates of particles in potentials the hydrogen atom and spin one half particles Part 2 covers mathematical tools the pictures of quantum mechanics and the axioms of quantum mechanics entanglement and tensor products angular momentum and identical particles Part 3 introduces tools and techniques that help students master the theoretical concepts with a focus on approximation methods 236 exercises and 286 end of chapter problems 248 figures

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Policy Analysis in National Security Affairs Richard L. Kugler, 2006 This book addresses how to conduct policy analysis in the field of national security including foreign policy and defense strategy It is a philosophical and conceptual book for helping people think deeply clearly and insightfully about complex policy issues This book reflects the viewpoint that the best policies normally come from efforts to synthesize competing camps by drawing upon the best of each of them and by combining them to forge a sensible whole While this book is written to be reader friendly it aspires to in depth scholarship

Microeconomics John P. Burkett, 2006-04-20 In this book John P Burkett presents microeconomics as an evolving science interacting with mathematics psychology and other disciplines and offering solutions to a growing range of practical problems The book shows how early contributors such as Xenophon Ibn Khaldun and David Hume posed the normative and positive questions central to microeconomics It expounds constrained optimization techniques as developed by economists and mathematicians from Daniel Bernoulli to Leonid Kantorovich emphasizing their value in deriving norms of rational behavior and testable hypotheses about typical behavior Applying these techniques the book introduces partial equilibrium analysis of particular markets and general equilibrium analysis of market economies The book both explains how laboratory and field experiments are used in testing economic hypotheses and provides materials for classroom experiments It gives extensive and innovative

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