
SOLUTIONS MANUAL

INTRODUCTION TO ELECTRIC CIRCUITS 9TH EDITION

CHAPTER 1 – ELECTRIC CIRCUIT VARIABLES

EXERCISES

Exercise 1.2-1 Find the charge that has entered an element by time t when $i = 8t^2 - 4t$ A, $t \geq 0$. Assume $q(t) = 0$ for $t < 0$.

Answer: $q(t) = \frac{8}{3}t^3 - 2t^2$ C

Solution:

$$i(t) = 8t^2 - 4t \text{ A}$$

$$q(t) = \int_0^t i \, d\tau + q(0) = \int_0^t (8\tau^2 - 4\tau) \, d\tau + 0 = \frac{8}{3}\tau^3 - 2\tau^2 \Big|_0^t = \underline{\underline{\frac{8}{3}t^3 - 2t^2 \text{ C}}}}$$

Exercise 1.2-2 The total charge that has entered a circuit element is $q(t) = 4 \sin 3t$ C when $t \geq 0$ and $q(t) = 0$ when $t < 0$. Determine the current in this circuit element for $t > 0$.

Answer: $i(t) = \frac{d}{dt} 4 \sin 3t = 12 \cos 3t$ A

Solution:

$$i(t) = \frac{dq}{dt} = \frac{d}{dt} 4 \sin 3t = 12 \cos 3t \text{ A}$$

Exercise 1.3-1 Which of the three currents, $i_1 = 45 \mu\text{A}$, $i_2 = 0.03 \text{ mA}$, and $i_3 = 25 \times 10^{-4} \text{ A}$, is largest?

Answer: i_3 is largest.

Solution:

$$i_1 = 45 \mu\text{A} = 45 \times 10^{-6} \text{ A} < i_2 = 0.03 \text{ mA} = .03 \times 10^{-3} \text{ A} = 3 \times 10^{-5} \text{ A} < i_3 = 25 \times 10^{-4} \text{ A}$$

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web labs each partnership of two students will build and use 9 experiments all experiments need to be demonstrated and checked off during lab hours experiment related questions will be included on the problem sets in the assignments section as well as in each of the 4 quizzes in the exams section early check off of the experiments will be

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web 4 5 late reports late lab reports will be assessed a penalty of 5 per day a missing lab report will cost one letter grade for the course missing a lab entirely and not making it up will result in failure in the course 4 6 discussions part of a class meeting will be devoted to discussions of the physics and data analysis for the

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web problem 1 magnetic induction one of the great technical problems in modern society is how to generate enough electricity for our growing demand you have been assigned to a team that is investigating efficiency improvements for electric generators

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web lab manual phy150 electricity and magnetism content experiment page experiment 1 coulomb s law 2 experiment 2 capacitance 5 experiment 3 dc circuit 9 experiment 4 magnetism 16 universiti teknologi mara perak tapah campus electricity and magnetism phy150 laboratory report experiment 1 title coulomb s law group lab group no group

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web lab report 3 electric fields and electric potential noah quanrud lab date 9 13 lab partner yung chuan yang phys 221 1 professor ratliff ta minghao song problem statement the goal of the lab is to measure the electric potential changes ΔV using a digital multimeter and to investigate the connection between electric field

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web both electricity and magnetism arise from charge however the main difference between the two is that electric fields can exist with stationary charges while magnetism is related to charges in motion

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web list basic experimental techniques in various areas of electricity and magnetism 2 show competence in reporting the results of experimental studies 3 estimate the uncertainties in measurements nafiye güneç kıyak phys 104 general physics ii

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web the form of newton's law of universal gravitation in this lab exercise you will create demonstrations of static electricity in addition through phetsimulations and using coulomb's law you will be able to calculate the forces