## DC CIRCUIT ANALYSIS

#### CONCEPT OF CURRENT:

In DC circuit theory, **electrical Current**, (I) is the movement or flow of electrical charge and is measured in Amperes, symbol i, for *intensity*). It is the continuous and uniform flow (called a drift) of electrons (the negative particles of an atom) around a circuit that are being "pushed" by the voltage source.

### VOLTAGE SOURCES:

In DC voltage sources the symbols +ve (positive) and -ve (negative) are used to denote the polarity of the voltage supply.

Voltage is measured in Volts and has the symbol V for voltage or E for electrical energy.

Current flow is a combination of electron flow and hole flow through a circuit.

#### KIRCHOFF'S CURRENT:

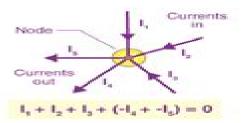
Kirchhoff's First Law or Kirchhoff's Current Law

According to Kirchhoff's Current Law,

The total current entering a junction or a node is equal to the charge leaving the node as no charge is lost.

Put differently, the algebraic sum of every current entering and leaving the node has to be null. This property of Kirchhoff law is commonly called Conservation of charge wherein, I(exit) + I(enter) = 0.

Currents entering the node equals current leaving the node



# **Dc Circuit Study Guide**

Mark L. Gray

## **Dc Circuit Study Guide:**

DC Electrical Circuit Analysis Mehdi Rahmani-Andebili, 2020-10-09 This study guide is designed for students taking courses in electrical circuit analysis The book includes examples questions and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student's problem solving skills and basic understanding of the topics covered in electric circuit analysis courses STUDY GUIDE & PRACTICE TESTS 2025-2026 Craig T. Smith, Your ASVAB score isn t just a test result it s the key to your future in the U S Armed Forces This comprehensive 2025 2026 edition by Craig T Smith delivers everything you need to dominate the exam and secure your ideal military occupational specialty MOS Inside this all in one guide you ll discover Strategic Test Mastery Conquer CAT ASVAB adaptive testing with pacing tactics smart guessing techniques and stress management protocols 2 500 Realistic Questions Build test endurance with practice drills and full length exams mirroring current formats Branch Specific Guidance Tailored preparation for Air Force Navy Army and Marine Corps technical combat roles Core Subject Deep Dives Math Bootcamps algebra geometry Vocabulary Domination systems and Paragraph Comprehension tactics Technical Section Expertise Electronics schematics vehicle systems mechanical physics and spatial reasoning Digital Advantage Access flashcards guick reference formulas and performance tracking tools AFOT Optimization Precisely target the 4 critical subtests that determine enlistment eligibility Diagnostic Tools Identify weaknesses with baseline assessments and customized study plans Updated for 2025 requirements this independent guide features insider strategies not found in official materials From foundational arithmetic to advanced electronics each chapter transforms complex concepts into actionable steps with real world military applications Whether you re aiming for Special Operations Cyber Warfare Nuclear Engineering or Aviation roles this system provides the edge to maximize your score potential Includes registration checklists test day protocols and post exam career planning Your mission starts here Equip yourself with the knowledge to excel Disclaimer Not affiliated with or endorsed by the U S Department of Defense or military branches 2025 Craig T Smith All Rights Reserved Digital Electronics Questions and Answers PDF Arshad Igbal, The Digital Electronics Quiz Questions and Answers PDF Digital Electronics Competitive Exam Questions Chapter 1 25 Practice Tests Class 8 12 Electronics Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Digital Electronics Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Digital Electronics Quiz PDF book helps to practice test questions from exam prep notes The Digital Electronics Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Digital Electronics Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Analog to digital converters BICMOS digital circuits bipolar junction transistors BJT

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