

Series/Parallel Circuit

(Experiment No.4)

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Abstract— In DC Fundamentals Circuit Boards, a series/parallel circuit configuration is a common arrangement of electrical components. This setup combines both series and parallel connections, allowing for precise control of voltage, current, and resistance. It's a fundamental concept in circuit design and is vital for creating efficient and versatile electrical networks. No significant challenges were encountered by our group. This experience enriched our understanding of series/parallel circuits and their practical applications in electrical engineering.

I. Introduction

In DC Fundamentals Circuit Boards, the series/parallel circuit configuration is a foundational concept. It involves combining electrical components in both series and parallel connections. This arrangement is essential for controlling voltage, current, and resistance, making it a fundamental building block in understanding and designing electrical circuits on circuit boards for direct current (DC) applications.

II. Objectives

In this laboratory experiment, you will have the opportunity to develop a comprehensive understanding of electrical measurements by:

- Acquiring practical knowledge in utilizing digital voltmeters and digital ammeters for the precise measurement of DC voltage and current.
- Conducting experiments to assess and verify the accuracy of Ohm's law, which relates voltage, current, and resistance in electrical circuits.

III. Materials and Equipment

All dc power to the circuit board is supplied by the 15 V power supply via the base unit and its protection circuitry. Students troubleshoot dc circuit faults inserted by the computer or manually by the instructor, who alters hidden switches located under a locking cover.

A dc milliammeter is provided with the circuit board. The Equipment used in this laboratory activity are:

Electrical Eng Laboratory Experiment 4ed

Christian G. Meyer



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