

Understanding Basic Concept of Electrical and Electronic Systems

Asadullah Shah



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UNDERSTANDING BASIC CONCEPT OF ELECTRICAL AND ELECTRONIC SYSTEMS

Editors

Asadullah Shah



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1. FAMILIARIZATION WITH MULTIMETER

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1.0 Abstract

Familiarization with Multimeters is important for students of discipline of electrical and electronics system and engineering. Many students are unfamiliar with these meters before starting their undergraduate degree programs. The right usage and familiarity with multi-meters is extremely important to have correct readings and measurements. Incorrect use of these meters may damage the meters and can be hazardous for the safety of the both. In this lab students are going to learn correct usage, types of meters (Analog and Digital), and precession of measurement using these meters to perform experimentation for different labs.

1.1 Introduction

A Multimeter is used to make various measurements of electrical signal characteristics, such as AC and DC voltage, AC and DC current, and resistance. It is called a *multimeter* because it combines the functions of a voltmeter, ammeter, and ohmmeter. Multimeters may also have other functions, such as diode and continuity tests.