

Fiber-Optic Communication System

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Abstract

We create a communication channel that transmits and receives data via Amplitude Shift Key (ASK) modulation of electromagnetic carrier waves. In particular, we will adjust a potentiometer to a resistance value of R and this value will be transmitted via fiber optic cable and displayed on an LCD screen connected to the receiver part of the system.

1 Introduction

Write nice paragraph about digital communications and how fiber-optic communication revolutionized the communications field that transitions into the objective of the project..

1.1 ASK Theory

1.2 Bandwidth, Power, and Noise Analysis

Data transmission rate.

2 Methodology

This section will detail how the resistance value travels through the channel. Might present snippets of the code.

3 Results

4 References