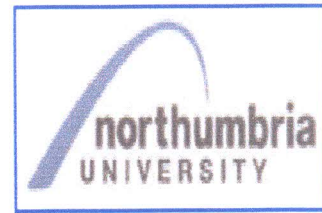




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SCHOOL OF ENGINEERING
DESIGN OF PCM REPEATER
FINAL PROJECT REPORT

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Abstract

Using a digital signal as transmission medium is a common technique in communication world, but most of the time the transmission range was limited. Therefore the title of designing of Pulse Coded Modulation (PCM) repeater was selected. The designing of a PCM repeater is about transmission system that can retransmit for longer distance using digital data as transmission medium. As we all know PCM was seldom used in the communication for longer distance and this project might be good news for PCM revolution in the communication world. In this chapter, the content such as idea of PCB design of the PCM repeater, simulation and hardware testing result of the repeater, theory and calculation, circuit design, flow chart of the system, future work and lastly the project cost and resources will be presented.