

C715814 MAJOR ELECTRICAL ENGINEERING

KEYWORD: DIGITAL COMMUNICATION SYSTEMS / MATLAB / EXPERIMENT

SOMBOON PRUKPRAIPADUNG : EXPERIMENT SETS FOR DIGITAL COMMUNICATION SYSTEMS USING MATLAB. THESIS ADVISOR : SUVIT NAKPEERAYUTH. 148 pp. ISBN 974-634-936-8

This thesis presents the design and implementation of the experiment sets for digital communication systems using Thai language. This suite of software based experiment sets operates on a microcomputer. The main objective is to support or assist the user learning and understanding more about digital communication systems theory. Moreover They also eliminate the limitations of hardware based experiment sets using nowadays.

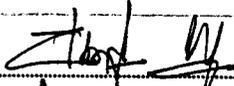
The software tools used are MATLAB version 4.2c1, as a computing engine, together with Microsoft Word Thai Edition version 6.0a, as a user interface, and the Microsoft Internet Assistant hyperlinking all experiments together.

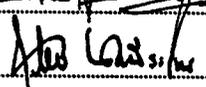
These experiments use command line input as the main user interface to allow more flexibility in exploring the variation. The user can interact with these experiments at two different levels. At the basic level, the user follows the demo-like experiments and changes parameters with guidance of the questions or his curiosity. The user can observe the results and compare and compare with theoretical predictions. At the advanced level, the user can create the whole new experiments using the previously learned building blocks or functions.

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