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**DIGITAL COMMUNICATION
SYSTEMS USING MATLAB**

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**DIGITAL COMMUNICATION
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by

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ABSTRACT

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The main focus of this report is to demonstrate with the use of examples how Matlab and its extensions can be used to study and understand some basic concepts of Digital Communications technology. These concepts can be realised within the Matlab environment, using a variety of built-in functions and tools. The knowledge obtained and the new skills developed in the process are put to good use for the purpose of designing simple communication systems. These systems are then modified and improved to achieve better performance. The approach followed is computer simulation, at the root of which lay common mathematical concepts and operations. Powerful analysis and visualisation are the emerging benefits in this attempt. Matlab can apparently become every engineer's invaluable tool for the development of new or the upgrading of existing systems.

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