

# Learning Programming Using MATLAB

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Khalid Sayood

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# Learning Programming Using MATLAB

**Khalid Sayood**

Department of Electrical Engineering  
University of Nebraska  
Lincoln, Nebraska, USA

*SYNTHESIS LECTURES ON ELECTRICAL ENGINEERING #3*

## ABSTRACT

This book is intended for anyone trying to learn the fundamentals of computer programming. The chapters lead the reader through the various steps required for writing a program, introducing the MATLAB<sup>®</sup> constructs in the process. MATLAB<sup>®</sup> is used to teach programming because it has a simple programming environment. It has a low initial overhead which allows the novice programmer to begin programming immediately and allows the users to easily debug their programs. This is especially useful for people who have a “mental block” about computers. Although MATLAB<sup>®</sup> is a high-level language and interactive environment that enables the user to perform computationally intensive tasks faster than with traditional programming languages such as C, C++, and Fortran, the author shows that it can also be used as a programming learning tool for novices. There are a number of exercises at the end of each chapter which should help the users become comfortable with the language.

## KEYWORDS

Programming, MATLAB, Problem Solving

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