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PREFACE

Although a great deal of engineering practice is not all mathematical, yet the engineering schools world-wide are ploughing vast amount of advanced mathematics and programming into their students. The emphasis is shifting more and more toward for implementing better methods with ready-to-use tools. With the advent of computers, the need arises to acquire the efficient way of computing for the engineering students. This book is intended for the undergraduate petroleum engineering students who want to write programs for computing problems in their subjects. It can serve as a reference book for others who want to learn MATLAB programs.

Why learn MATLAB programming? It is simple to answer that computers require computer programming to function. MATLAB has a simple programming environment and a low overhead allowing students to start programming easily. It also allows them to debug their programs immediately. Learning how to program is really a very good way of learning how to solve problems. Programming can be frustrating at times, but when you have finished a program that does what you want it to do, it is very satisfying. It is a creative process that exercises your brain. Anyway the author wishes you enjoy the benefits of genuine computing using MATLAB which is a high-performance language for technical computing. It also integrates computation, visualisation, and programming.

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