

# MATLAB Guide to Fibonacci Numbers and the Golden Ratio: A Simplified Approach

Peter I. Kattan



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## MATLAB Guide to Fibonacci Numbers and the Golden Ratio: A Simplified Approach

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**MATLAB Guide to Fibonacci Numbers and the Golden Ratio: A Simplified Approach** Peter I. Kattan This book is written for people who love MATLAB and Fibonacci numbers. One of the objectives of writing this book is to introduce MATLAB and Fibonacci numbers to students in high schools. The material presented is very easy and simple to understand -- written in a very simplified manner. The book is divided into two parts – A review of MATLAB is presented in the first part. This is followed by a presentation of Fibonacci numbers and the Golden Ratio in the second part. The topics covered in the book include symbolic computing with MATLAB, solving equations with MATLAB, MATLAB functions, graphs in MATLAB, Fibonacci numbers, The Golden Ratio, Properties of the Golden Ratio, Lucas numbers, Generalizations of Fibonacci numbers, and Random Fibonacci numbers. The book includes numerous M-files written specifically to compute different kinds of Fibonacci sequences and the Golden Ratio. The author has been using MATLAB for the past seventeen years and is the author of the best selling books "MATLAB for Beginners" and "MATLAB Guide to Finite Elements".

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