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# **Excel with VBA**

Francis Hauser



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#### Excel with VBA Francis Hauser

This book was born when dynamic systems analyst Francis Hauser, PhD, discovered the power of this wellintegrated programming platform. He realized how helpful this would have been to him as a student and as a practicing engineer and university teacher. He decided "this has got to be told."

From this book, the reader can expect to be writing computer programs using Microsoft Office Excel with VBA. This book defines and demonstrates VBA syntax incrementally using example programs that range from common math problems like finding roots of polynomials to more advanced problems like finding eigenvalues of general matrices using the QR algorithm.

Example programs with complete code listings cover the following topics:

Roots of polynomials

Linear algebraic equations

Runge-Kutta numerical integration

3D object rotation

Newton-Raphson for nonlinear equations

Linearizing equations

State variable form of equations

Eigenvalues via the QR algorithm

Transfer functions via the QR algorithm

Frequency response

Root locus

Dantzig's Simplex Algorithm

Discrete Fourier transform

These code listings are explained by in depth tutorials on the topics, and include checkout methods learned from experience. This guidebook will help you as an engineer, mathematician, or student using nothing more than the Microsoft Office suite that many are already familiar with. The book is for PCs and Macs.

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