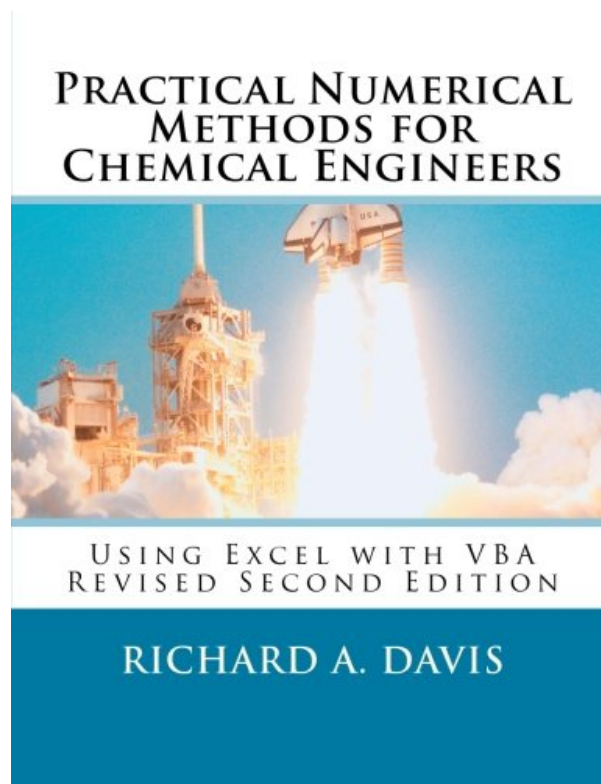


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## About the Author

Richard Davis is a Jean G. Blehart Distinguished Professor of Chemical Engineering at the University of Minnesota Duluth. His research and teaching interests include process modeling, simulation, and optimization.

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By Umesh Mathur

Here's what I wrote to Professor Davis recently:

"Dear Professor Davis:

Permit me to introduce myself as a chemical engineer of long-standing (IIT Delhi, 1966, U. of Tulsa, 1980). My name is Umesh Mathur and I am a practicing ChE in Houston.

I studied numerical methods starting in 1963, but without the benefit of computers. I learned Fortran II in

1967, when I was at the Indian Institute of Petroleum in India, but didn't really get to apply it when I worked for Shell. Then, I went back to grad school in Tulsa where the late Professor Paul Buthod taught me numerical methods (the text was Carnahan, Luther, and Wilkes) in 1972. Since then, I have been a "numerical methods person" and have written huge amounts of code (Fortran 77, 90, and 95) for solving chemical engineering problems. Generally, I use canned subroutine libraries such as LAPACK, IMSL, or Harwell and have also used code from Numerical Recipes (Press et al) and many other texts, depending on the problem.

Somehow, I never seriously learned C++ or VBA and was always stymied in Excel when I couldn't call any of my math libraries. Stand-alone Fortran code always had the disadvantage of a flat-file interface. So, I muddled along for these last 25 years or so in a hybrid world of Excel and Fortran. I had heard a few horror stories of people coding in C or C++ who linked their routines to Excel, only to run into problems with the interface when newer versions of Excel were released.

Last week, I came across your book on Amazon and immediately purchased it when I saw that you had incorporated a huge amount of VBA code for standard mathematical problems. Well, the book arrived today and I have been reading it with great anticipation, as I now see an extremely convenient and consistent way to solve innumerable vexatious problems, while staying within the Excel environment. I will dive into the VBA coding with some gusto, having downloaded the VBA examples and errata for the book from your website.

I wanted to compliment you for putting your heart and soul into this effort and producing an outstanding book which should be of immense value to students and practitioners alike. What makes me particularly glad is that you have explained the essence of the underlying numerical methods in each chapter without going overboard on the numerical analysis aspects. That material, while extremely important, belongs properly in courses for math majors or graduate students who delve into algorithms.

The convenience of the Excel interface makes it ideal for keeping useful applications alive, provided you use VBA for the underlying math. Being able to use your math library will certainly eliminate a lot of amateurish clutter, macros, etc. and also improve reliability considerably in my own work. Thank you very much for recognizing the importance of this problem which I feel certain afflicts many, if not most, chemical engineers every day.

Sincerely,

Umesh Mathur, P.E."

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Excellent Numerical Analysis and Excel VBA Coding book

By Namir C. Shammass

The author delivers a big book full of excellent numerical analysis topics, examples, and accompanying examples in Excel. The examples (as the book title suggest) are for chemical engineers. The book's accompanying web site has numerous links to download various Excel files that contains the book's examples. In addition, the web site has a link to download the file PNM2Suite.xlsm which is a powerful numerical analysis software toolkit. The VBA code is very well documented. The book does use subroutines and forms defined in the PNM2Suite.xlsm file.

I highly recommend this book for professionals and hobbyists who use and enjoy numerical analysis. If you are familiar with or regularly use Excel VBA, then this book is a gem. If you have studied chemical

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Great book with a lot of VBA

By Avis D. Hedin

I was looking for a book to learn VBA for numerical methods and discovered this gem. This book shows you how to create VBA macros, user-functions, and user-forms for customizing Excel. It comes with a lot of VBA macros (about 100). I have been using Excel as an engineer for some time and still found new tips and tricks in this book that I had not tried before. I recommend this book for anyone who uses Excel for engineering or scientific analysis. It is full of simple and more advanced examples of Excel with VBA for tackling problems that require a numerical solution. The numerical methods are well tested, and work as well as computational software like Matlab. A companion web site has downloadable files for all of the macros and examples ready to use. This book belongs on your shelf if you are a scientist or engineer who uses Excel.

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