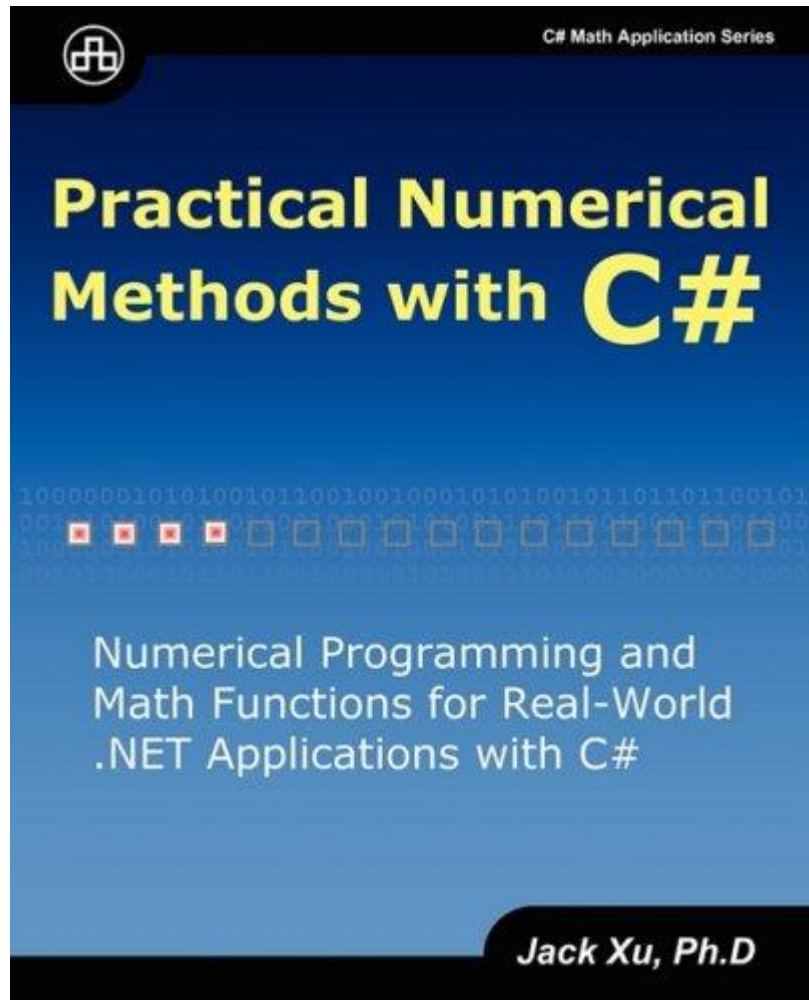


Practical Numerical Methods with C# by Jack Xu



[Light On Discussion, Strong On Code](#)

This book presents an in-depth exposition of the various numerical methods used in real-world scientific and engineering computations. It emphasizes the practical aspects of C# numerical methods and mathematical functions programming, and discusses various techniques in details to enable you to implement these numerical methods in your .NET application. Ideal for scientists, engineers, and students who would like to become more adept at numerical methods, Practical Numerical Methods with C# familiarizes you with:

- Overview of C# programming.
- The mathematical background and fundamentals of numerical methods.
- Math libraries for complex numbers and functions, real and complex vector and matrix operations, and special functions.
- Numerical methods for generating random numbers and random distribution functions.
- Various numerical methods for solving linear and nonlinear equations.
- Numerical differentiation and integration.
- Interpolations and curve fitting.
- Optimization of single-variable and multi-variable functions with a variety of

techniques, including advanced simulated annealing and evolutionary algorithms. - Numerical techniques for solving ordinary differential equations. - Numerical methods for solving boundary value problems. - Eigenvalue problems. In addition, this book provides testing examples for every math function and numerical method to show you how to use these functions and methods in your own .NET applications in a manageable and step-by-step fashion. Please visit the authors website for more information about this book at www.drxudotnet.com

Personal Review: Practical Numerical Methods with C# by Jack Xu

Maybe Xu's latest only rates 4.5 out of 5 stars since the explanations seem terse to this programmer's taste. Nonetheless, you really can't fault a gem with so much great code for a domain rarely visited by .NET.

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