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By Alejandro Garcia

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Editorial Review

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This text covers a broad spectrum of the most important, basic numerical and analytical techniques used in physics -- including ordinary and partial differential equations, linear algebra, Fourier transforms, integration and probability. Based on MATLAB, Fortran references included.

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Garcia, Alejandro, Numerical Methods for Physics, Second Edition This book covers a broad spectrum of the most important, basic numerical and analytical techniques used in physics —including ordinary and partial differential equations, linear algebra, Fourier transforms, integration and probability. Now language-independent. Features attractive new 3-D graphics. Offers new and significantly revised exercises. Replaces FORTRAN listings with C++, with updated versions of the FORTRAN programs now available on-line. Devotes a third of the book to partial differential equations—e.g., Maxwell's equations, the diffusion equation, the wave equation, etc. This numerical analysis book is designed for the programmer with a physics background.

About the Author
Garcia is a professor of history at the University of Havana.

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