Numerical Analysis Using MATLAB and Excel (Third Edition)

By Steven T. Karris

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This text includes the following chapters and appendices: Introduction to MATLAB, Root approximations, Sinusoids and complex numbers, Matrices and determinants, Review of differential equations, Fourier, Taylor, and Maclaurin series, Finite differences and interpolation, Linear and parabolic regression, Solution of differential equations by numerical methods, Integration by numerical methods, Difference equations, Partial fraction expansion, The Gamma and Beta Functions and distributions, Orthogonal functions and matrix factorizations, Bessel, Legendre, and Chebyshev polynomials, Optimization methods, Difference Equations in Discrete-Time systems, Introduction to Simulink, Ill-Conditioned Matrices. Each chapter contains numerous practical applications supplemented with detailed instructions for using MATLAB and/or Excel to obtain quick solutions. For additional information. please visit the Orchard Publications site.

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Steven T. Karris is the president and founder of Orchard Publications, has undergraduate and graduate degrees in electrical engineering, and is a registered professional engineer in California and Florida. He has more than 35 years of professional engineering experience and more than 30 years of teaching experience as an adjunct professor, most recently at UC Berkeley, CA.

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