

Numerical Methods For Scientific And Engineering Computation Ebook By Mk Jain

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@inproceedings{Jain1985NumericalMF, title={Numerical Methods for Scientific and Engineering Computation}, author={M. Jain and S. R. K. Iyengar and R. Jain}, year={1985} } Preface High Speed Computation Transcendental and Polynomial Equations System of Linear Algebraic Equations and Eigenvalue ...

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Newton's method. Order of convergence. Limit cycles. Why summing a Taylor series is problematic. Condition number, partial derivatives, backwards stability and chaos. Matrix Form Simultaneous Equations. Gaussian Elimination. Stability and pivoting improvements. Positive-definite. LU and Cholesky decompositions. Doolittle/Crout method.

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Jain is also a co-author of Numerical Methods for Scientific and Engineering Computation (New Age International Publishers). Satteluri R K Iyengar (MA, MTech, PhD) was a Professor of Mathematics at the Indian Institute of Technology, Delhi.

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Appreciate the role of computer simulation, as a third method in science, distinct from theory and experiment; Understand the distinction between the simulation of stochastic and deterministic models; Be able to use appropriate numerical techniques when undertaking a mathematical or modelling investigation

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