

Arganbright (Deane)

Mathematical Applications of Electronic Spreadsheets

Reference: Cyb-5110

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Comment: numerous black and white illustrations Contents, Chapitres : Contents, Preface, About the Author, x, Text, 165 pages - Introduction : Basic spreadsheet operation - Fibonacci numbers - Factorials - Bisection algorithm - Fixed-point algorithm - Limits - Differentiation - Newton's method - Numerical integration : Trapezoidal rule and Simpson's rule - Taylor polynomials - Differential equations : Euler's method - Polynomial interpolation : Neville's algorithm - Matrix multiplication - Jacobi and Gauss-Seidel algorithms - Dominant eigenvalue via iteration : Power method - Eigenvalues and diagonalization - Continued fractions - Euclid's GCD algorithm - Binomial theorem - Synthetic division - Contour graph of $z = f(x,y)$ - Modular arithmetic - Russian peasant multiplication - Statistics : Mean, correlation and regression, Confidence intervals - Probability, Bayes rule - Algebra : Word problems - Trigonometry : Indirect measurement - Compound interest - Personal finance model - Linear programming (simplex) with user-selected pivots, with program-selected pivots - Game theory - Demonstration of circular reference - Appendix, references, index near fine copy, no markings

Year 1985

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