Numerical and statistical methods techmax pdf

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On August 21, 2012, 11:18 #1 Like previous ERCIM WG seminars, we are planning several plenary lectures and specialized sessions on topics di erent both from computational statistics and numerical methods, such as numerical methods for statisticians, total of the least squares, partial least squares and calculations of The Chains' Marks. Related: File Title: File Size: 639.9 KB Total downloads: 3187 - Click on file icon or file name to start downloading February 25, 2016 , 08:40 PM #2 Thank you.... It's so helpful. If you have more material that is useful for computer engineering, please download it. March 28, 2016 , 12:48 PM #3 thanks a lot on January 31, 2017, 10:39 PM #4 February 15, 2017, 07:15 PM #5 May 20, 2017 , 03:21 PM #6 Here's more: Basics mathematical statistics Author: S.C. Gupta, W.K. Kapoor Note: The link was removed due to a copyright issue. UnitDetails I Mathematical Modeling and Engineering Problem Solution: Simple Mathematical Model, Conservation Laws and Engineering Problems Of Approximations and Error Round: Significant Numbers, Accuracy and Accuracy, Error Definitions, Error Round-Off Truncation Errors and Taylor Series: Taylor Series, The proliferation of errors, total numerical errors, wording errors and data uncertainty II Solutions of algebraic and transcendental equations: Bisection Method, Newton-Rafson Method, Regula-Falsi Method, Interpoling of the Secant Method: Reverse Difference, III Solution of Simultaneous Algebraic Equations (Linear) using Iterative Methods: The Method of Gauss-Jordan, Method of Gauss-Jordan. Numerical differentiation and integration: quantitative differentiation, numerical integration using Trapeze-shaped Rule, 1/3 and 3/8 of Simpson's Rules Numerical Solution of Differential Equations of the 1st and 2nd Order: Taylor Series, Euler Method, Weiler Modified Method, Runge-Kutt Method for Differential Equations 1st and 2nd Order. IV Least square regression: Linear regression, polynomial regression, multiple linear regression, Common Linear Least Squares, non-linear regression linear programming: Linear problem optimization, Formula and Graphic solution, basic solution and feasible solution. V Random variables: Discrete and Continuous random variables, probability density function, probability probability distribution, expected value, variance. Distributions: Discrete Distributions: Single, Binomial, Poisson, Bernoulli, Continuous Distribution: Even Distribution, Exponential, (Withdrawal only medium and variance and state of other properties and discussion of their applications) Normal distribution of the state of all properties and its properties Practical NoDetails 1 Iterative Calculation Program for Iterative Calculation b Program for calculating the roots of the square equation using a formula. c Ex Evaluation Program using Infinite Series 2 Solution of Algebraic and Transcendental Equations: A Program to Address algebraic and Transcendental Equation by Biection. b Program to solve the algebraic and transcendental equation by false position. c Program to solve the algebraic and transcendental equation by Secant. d The Newton Rafson Decision Program. 3 Interpolation Program for Newton Forward Interpolation b Newton Program for Newton Back Interpolation c Lagrange Interpolation Program 4 Line System Equation Solution and Terative Methods Program to Solve Linear System Equations using the Gauss Jordan method. b Linear Equation System Solution Program using gauss Seidel 5 Numerical programming differentiation to produce derivatives numerically. 6 Numerical integration of the Numerical Integration Program using Trapezoidal Rule b Program for numerical integration using the 1/3 Simpson Rule. c Numerical Integration Program using Simpson's 3/8 rule. 7 Solution of Differential Equations Program to solve differential equation using the euler b Program method to solve the differential equation using the modified Euler method c Program to solve differential equation using Runge-kutta 2nd Order and 4th Order methods. 8 Regression of the Linear Regression Program. b Program for Polynomial Regression C for multiple linear regressions d program for nonlineacial regression of 9 random variables and program distributions to generate random variables. b A program that corresponds to binomial distribution. c A program that corresponds to poisson's distribution. 10 Distribution of the even distribution program. b Program for bernoulli distribution c Program for negative binomial distribution Title Introductory

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