

## **SEMESTER III**

### **COMPUTER BASED NUMERICAL AND STATISTICAL TECHNIQUES BCA 301**

#### **Unit – I**

##### **Floating Point Arithmetic:**

Representation of floating point number, Operations, Normalization, Pitfalls of floating point representation, Error in numerical computation.

##### **Iterative Methods:**

Bisection methods, Regula-Falsi method, Newton-Raphson method.

#### **Unit – II**

##### **Simultaneous Linear Equations:**

Solution of systems of linear equations, Gauss elimination direct method and Pivoting, ill conditioned system of equations, Refinement of solution, Gauss Seidal method.

#### **Unit – III**

##### **Interpolation and approximation:**

Finite differences, Difference tables, Polynomial Interpolation: Newton forward and backward formula. Central Difference formula: Gauss forward and backward formula.

##### **Interpolation with unequal intervals:**

Langrange's interpolation, Newton Divided difference formula.

#### **Unit – IV**

##### **Statistics:**

Statistics and its role in decision making, Internal and external source of data, Formation of frequency distribution and types of frequency distribution, Simple and weighted mean, median and mode.

#### **Unit – V**

##### **Correlation:**

Significance of study of Correlation, Types of Correlation: Positive and Negative correlation, Simple, Partial and Multiple Correlation, Linear and Non-linear correlation, Coefficient of Correlation, Use of Regression analysis, Difference between correlation and regression analysis, Regression Lines: Regression equation of Y on X and X on Y.

##### **Books:**

- Rajaraman, "Computer Oriented Numerical Methods", PHI
- Gerald and Wheatly, "Applied numerical Analysis", AWW.
- Pradip Niyogi, "Numerical Analysis and algorithms", TMH.

# Bca 301 Numerical Methods And Statistical Techniques

**Ray W. Cooksey**



## **Bca 301 Numerical Methods And Statistical Techniques:**

**Illustrating Statistical Procedures: Finding Meaning in Quantitative Data** Ray W. Cooksey, 2020-05-14 This book occupies a unique position in the field of statistical analysis in the behavioural and social sciences in that it targets learners who would benefit from learning more conceptually and less computationally about statistical procedures and the software packages that can be used to implement them This book provides a comprehensive overview of this important research skill domain with an emphasis on visual support for learning and better understanding The primary focus is on fundamental concepts procedures and interpretations of statistical analyses within a single broad illustrative research context The book covers a wide range of descriptive correlational and inferential statistical procedures as well as more advanced procedures not typically covered in introductory and intermediate statistical texts It is an ideal reference for postgraduate students as well as for researchers seeking to broaden their conceptual exposure to what is possible in statistical analysis Statistical Strategies for Small Sample Research Rick H. Hoyle, 1999-03-30 This book provides encouragement and strategies for researchers who routinely address research questions using data from small samples Chapters cover such topics as using multiple imputation software with small sets computing and combining effect sizes bootstrap hypothesis testing application of latent variable modeling time series data from small numbers of individuals and sample size reliability and tests of statistical mediation **Current Index to Statistics, Applications, Methods and Theory**, 1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **Charles Christopher Mark's Arts Reporting Service** Charles Christopher Mark, 1983 Bibliography of Scientific and Industrial Reports, 1962 Classification Literature Automated Search Service, 1978 Computer Based Numerical & Statistical Techniques Goyal, 2005 Annals of Glaciology, 2008 The Standard Periodical Directory, 2003 High Energy Physics Index, 1984 Government Reports Announcements & Index, 1995 **Numerical Methods and Statistical Techniques Using C** Manish Goyal, **COMPUTER BASED NUMERICAL AND STATISTICAL TECHNIQUES** Rakesh Kumar, Kamendra Kumar, 2018-01-30 The book introduces subject techniques to approximate mathematical procedures solutions of problems that arise in science and engineering It handles carefully a detailed elucidation of errors in numerical analysis It aims to fully cater to the needs of students of the courses BSc MSc mathematics and physics BSc computer science BTech all courses in engineering and MCA Science Citation Index, 1994 Vols for 1964 have guides and journal lists **Computer Based Numerical and Statistical Techniques** Manish Goyal, 2015 **Computer Based Numerical Methods and Statistical Techniques** Pijus Kanti De, 2006-02-01 Computer Based Numerical & Statistical Techniques, **Computer Based Numerical and Statistical Techniques** Maria Emilova Velinova, 2016-11-30 Covers several advanced applications of numerical and statistical procedures in different fields In particular the book explores numerical stability analysis numerical integration methods for differential and integral equations numerical differentiation time series and images statistical

analysis and Monte Carlo methods      *NUMERICAL ANALYSIS* Vinay Vachharajani, 2018-06-01 Description This book is Designed to serve as a text book for the undergraduate as well as post graduate students of Mathematics Engineering Computer Science COVERAGE Concept of numbers and their accuracy binary and decimal number system limitations of floating point representation Concept of error and their types propagation of errors through process graph Iterative methods for finding the roots of algebraic and transcendental equations with their convergence methods to solve the set of non linear equations methods to obtain complex roots Concept of matrices the direct and iterative methods to solve a system of linear algebraic equations Finite differences interpolation and extrapolation methods cubic spline concept of curve fitting Differentiation and integration methods Solution of ordinary and partial differential equations SALIENT FEATURES Chapters include objectives learning outcomes multiple choice questions exercises for practice and solutions Programs are written in C Language for Numerical methods Topics are explained with suitable examples Arrangement Logical order clarity detailed presentation and explanation of each topic with numerous solved and unsolved examples Concise but lucid and student friendly presentation for derivation of formulas used in various numerical methods Table Of Contents Computer ArithmeticError Analysis Solution of Algebraic and Transcendental Equations Solution of System of Linear Equations and Eigen value Problems Finite Differences Interpolation Curve Fitting and Approximation Numerical Differentiation Numerical Integration Difference Equations Numerical Solution of Ordinary Differential Equations Numerical Solution of Partial Differential Equations Appendix I Case Studies Applications Appendix II Synthetic Division Bibliography Index      **Computer Based Numerical and Statistical Techniques** Mr. Rohit Manglik, 2024-07-07 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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