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", AW.
- Pradip Niyogi, "Numerical Analysis and algorithms", TMH.

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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 **Annals of Glaciology** ,2008 **Classification Literature Automated Search Service** ,1978 **High Energy Physics Index** ,1984 **The Standard Periodical Directory** ,2003 *Government Reports Announcements & Index* ,1995 *COMPUTER BASED NUMERICAL AND STATISTICAL TECHNIQUES* Rakesh Kumar,Kamlendra 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 **Numerical Methods and Statistical Techniques Using C** Manish Goyal, **Science Citation Index** ,1994 Vols for 1964 have guides and journal lists Computer Based Numerical & Statistical Techniques Goyal,2005 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** Manish Goyal,2006-01-01 **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 *Computer Oriented Numerical Methods* N Datta,2004 This book clearly presents the algorithms required for easy implementation of numerical methods in computer programming The book deals with the important topics of numerical methods including errors in numerical computation in a lucid style Chapter end short questions with answers and appendices with theory questions and C programs are student friendly feature of the book *Computer Based Numerical And Statistical Techniques* P. K. Mittal,

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