

# S P Gupta Statistical Methods

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statistic deep

this best selling textbook has been revised by adding a chapter on the theory of games first published in 1957 this book continues to serve as a text for students taking statistics as a course in commerce management economics or any other area of the social sciences emphasis has been laid on the significance of various statistical concepts to help readers understand and interpret them a large number of illustrations have been provided to better demonstrate the use of statistical techniques in diverse situations and understand their applicability better

knowledge updating is a never ending process and so should be the revision of an effective textbook the book originally written fifty years ago has during the intervening period been revised and reprinted several times the authors have however been thinking for the last few years that the book needed not only a thorough revision but rather a substantial rewriting they now take great pleasure in presenting to the readers the twelfth thoroughly revised and enlarged golden jubilee edition of the book the subject matter in the entire book has been re written in the light of numerous criticisms and suggestions received from the users of the earlier editions in india and abroad the basis of this revision has been the emergence of new literature on the subject the constructive feedback from students and teaching fraternity as well as those changes that have been made in the syllabi and or the pattern of examination

papers of numerous universities knowledge updating is a never ending process and so should be the revision of an effective textbook the book originally written fifty years ago has during the intervening period been revised and reprinted several times the authors have however been thinking for the last few years that the book needed not only a thorough revision but rather a substantial rewriting they now take great pleasure in presenting to the readers the twelfth thoroughly revised and enlarged golden jubilee edition of the book the subject matter in the entire book has been re written in the light of numerous criticisms and suggestions received from the users of the earlier editions in india and abroad the basis of this revision has been the emergence of new literature on the subject the constructive feedback from students and teaching fraternity as well as those changes that have been made in the syllabi and or the pattern of examination papers of numerous universities knowledge updating is a never ending process and so should be the revision of an effective textbook the book originally written fifty years ago has during the intervening period been revised and reprinted several times the authors have however been thinking for the last few years that the book needed not only a thorough revision but rather a substantial rewriting they now take great pleasure in presenting to the readers the twelfth thoroughly revised and enlarged golden jubilee edition of the book the subject matter in the entire book has been re written in the light of numerous criticisms and suggestions received from the users of the earlier editions in india and abroad the basis of this revision has been the emergence of new literature on the subject the constructive feedback from students and teaching fraternity as well as those changes that have been made in the syllabi and or the pattern of examination papers of numerous universities some prominent additions are given below 1 variance of degenerate random variable 2 approximate expression for expectation and variance 3 lyapounov s inequality 4 holder s inequality 5 minkowski s inequality 6 double expectation rule or double e rule and many others

statistical methods of discrimination and classification advances in theory and applications is a collection of papers that tackles the multivariate problems of discriminating and classifying subjects into exclusive population the book presents 13 papers that cover that advancement in the statistical procedure of discriminating and classifying

an excellent book for commerce students appearing in competitive professional and other examinations 1 statistics meaning nature and limitations 2 statistics scope and importance 3 statistical investigation 4 types and collection of data 5 questionnaire and schedule 6 sample survey 7 editing of collected data 8 classification and tabulation of data 9 diagrammatic presentation data 10 graphic presentation of data 11 construction of frequency distribution 12 measures of central tendency 13 geometric mean and harmonic mean 14 partition values 15 measures of dispersion 16 measures of skewness 17 moments 18 measures of kurtosis 19 correlation 20 index numbers 21 analysis of time series 22 interpolation and extrapolation 23 regression analysis 24 probability theory 25 probability distributions or theoretical frequency distributions 26 association of attributes 27 sampling theory and tests of significance 28 chi square test and goodness of fit 29 analysis of variance 30 statistical quality control appendix

functions of survival time examples of survival data analysis nonparametric methods of estimating survival functions nonparametric methods for comparing survival distributions some well known survival distributions and their applications graphical methods for survival distribution fitting and goodness of fit tests analytical estimation procedures for survival distributions parametric methods for comparing two survival distribution identification of prognostic factors related to survival time identification of risk factors related to dichotomous data planning and design of clinical trials i planning and design of clinical trials ii

the dichotomous data problem the one sample location problem paired replicates analyses by way of signed ranks paired replicates analyses by way of signs one sample data the two sample location problem the two sample dispersion problem medians known or equal medians unknown and unequal the one way layout the two way layout analyses associated with friedman rank sums analyses associated with wilcoxon signed ranks the independence problem regression problems involving slopes one regression line two regression lines tests designed to detect broad alternatives

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