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An R and S-Plus Companion to Multivariate Analysis

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Springer Texts in Statistics

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This is a routine book on multivariate statistical methods. It provides a very modest amount of the basic theory and emphasises the usage of computer codes from the softwares R (which is of course free) and S-Plus (which is proprietary) for carrying out the most commonly available multivariate procedures.

There are nine Chapters and an Appendix. The latter serves as a source of quick recall of the rudiments of the two softwares. The nine chapters together cover, broadly speaking, the basic multivariate summary statistics, principal components analysis, exploratory factor analysis, multidimensional scaling, correspondence analysis, cluster analysis, MANOVA, discriminant function analysis, multiple regression and repeated measurement data. Most data sets used are available in the text. All of them are available from a quoted website which also gives all the software codes.

This book will be useful to those who wish to pick up some multivariate methods, specially those from social and related sciences. The theory is not covered in any depth but there are references to adequate sources for further reading. No thorough knowledge of the softwares is essential but some familiarity with either of them will help.

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