



# An Introduction to Multivariate Statistical Analysis

By Theodore W. Anderson

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Perfected over three editions and more than forty years, this field- and classroom-tested reference:

- \* Uses the method of maximum likelihood to a large extent to ensure reasonable, and in some cases optimal procedures.
- \* Treats all the basic and important topics in multivariate statistics.
- \* Adds two new chapters, along with a number of new sections.
- \* Provides the most methodical, up-to-date information on MV statistics available.

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### Editorial Review

#### Review

"...suitable for a graduate-level course on multivariate analysis...an important reference on the bookshelves of many scientific researchers and most practicing statisticians." (*Journal of the American Statistical Association*, September 2004)

"...really well written. The edition will be certainly welcomed..." (*Zentralblatt Math*, Vo.1039, No.08, 2004)

"...a wonderful textbook...that covers the mathematical theory of multivariate statistical analysis..." (*Clinical Chemistry*, Vol. 50, No. 2, May 2004)

"...remains an authoritative work that can still be highly recommended..." (*Short Book Reviews*, 2004)

"...still a very serious and comprehensive book on the statistical theory of multivariate analysis." (*Technometrics*, Vol. 46, No. 1, February 2004)

"...remains a mathematically rigorous development of statistical methods for observations consisting of several measurements or characteristics of each subject and a study of their properties." (*Quarterly of Applied Mathematics*, Vol. LXI, No. 4, December 2003)

#### From the Inside Flap

An Introduction to Multivariate Statistical Analysis, 2nd Edition is a major updating of a work widely regarded as the standard, authoritative text in the field. It provides students and practicing statisticians with the latest theory and methods, plus the most important developments that have occurred over the past 25 years. As in the first edition, the text provides a mathematically rigorous development of the statistical methods used to analyze multivariate data. While maximum likelihood estimators have been principal tools of multivariate statistical analysis, this book introduces alternatives that are better suited for certain loss functions, such as Stein and Bayes estimators. Likelihood ratio tests have been supplemented by other invariant procedures. New results on distributions are given and some significance points are tabulated. Properties of these procedures such as power functions, admissibility, unbiasedness, and monotonicity of power functions are covered, and simultaneous confidence intervals for means and covariances are studied. Other new topics introduced in this edition include simultaneous equations models and linear functional relationships, with 50% more problems than in the previous edition.

#### From the Back Cover

A classic comprehensive sourcebook, now fully updated

For more than four decades An Introduction to Multivariate Statistical Analysis has been an invaluable text for students and a resource for professionals wishing to acquire a basic knowledge of multivariate statistical analysis. Since the previous edition, the field has grown significantly. This updated and improved Third Edition familiarizes readers with these new advances, elucidating several aspects that are particularly relevant to methodology and comprehension.

The Third Edition features new or more extensive coverage of:

- Patterns of Dependence and Graphical Models—a new chapter
- Measures of correlation and tests of independence
- Reduced rank regression, including the limited-information maximum-likelihood estimator of an equation in a simultaneous equations model
- Elliptically contoured distributions

Incorporation of the advice and comments of the readers of the first two editions as well as extensively classroom-tested techniques and calculations makes *An Introduction to Multivariate Statistical Analysis, Third Edition*, more valuable than ever for both professional statisticians and students of multivariate statistics.

## **Users Review**

### **From reader reviews:**

#### **Antonio Duncan:**

Reading can called mind hangout, why? Because if you find yourself reading a book especially book entitled *An Introduction to Multivariate Statistical Analysis* your head will drift away trough every dimension, wandering in most aspect that maybe mysterious for but surely will become your mind friends. Imaging every single word written in a e-book then become one form conclusion and explanation that will maybe you never get ahead of. The *An Introduction to Multivariate Statistical Analysis* giving you another experience more than blown away your thoughts but also giving you useful details for your better life within this era. So now let us explain to you the relaxing pattern here is your body and mind are going to be pleased when you are finished reading through it, like winning an activity. Do you want to try this extraordinary paying spare time activity?

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