



Foundations of Factor Analysis, Second Edition (Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences)

By Stanley A Mulaik

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Providing a practical, thorough understanding of how factor analysis works, **Foundations of Factor Analysis, Second Edition** discusses the assumptions underlying the equations and procedures of this method. It also explains the options in commercial computer programs for performing factor analysis and structural equation modeling. This long-awaited edition takes into account the various developments that have occurred since the publication of the original edition.

New to the Second Edition

- A new chapter on the multivariate normal distribution, its general properties, and the concept of maximum-likelihood estimation
- More complete coverage of descriptive factor analysis and doublet factor analysis
- A rewritten chapter on analytic oblique rotation that focuses on the gradient projection algorithm and its applications
- Discussions on the developments of factor score indeterminacy
- A revised chapter on confirmatory factor analysis that addresses philosophy of science issues, model specification and identification, parameter estimation, and algorithm derivation

Presenting the mathematics only as needed to understand the derivation of an equation or procedure, this textbook prepares students for later courses on structural equation modeling. It enables them to choose the proper factor analytic procedure, make modifications to the procedure, and produce new results.

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Review

"The author does a good job in explaining basic formal and mathematical concepts. ... a useful text for psychologists and scientists from other fields that deal with similar data. The book covers a wide range of topics related to exploratory factor analysis and is useful to readers interested in that topic."

?*Statistical Papers* (2014) 55

"I must say that I am very happy that the author has taken the challenge to update and revise this precious book into the second edition. It will be an important source for decades to come. ... there are good grounds for the new edition ... it digs deep into the foundations of factor analysis ... the topics are explained clearly, and mathematics is taught, as it is needed to understand a derivation of an equation or some procedure. ... the book is worth having nearby"

?*International Statistical Review* (2010), 78

About the Author

Stanley A. Mulaik is a Professor Emeritus in the School of Psychology at the Georgia Institute of Technology.

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