

8 References

References

- Asparouhov (2005). Sampling weights in latent variable modeling. *Structural Equation Modeling*, 12, 411-434.
- Asparouhov & Muthén (2009). Exploratory structural equation modeling. *Structural Equation Modeling*. 16, 397-438.
- Asparouhov & Muthén (2023). Multiple group alignment for exploratory and structural equation models. *Structural Equation Modeling*. 30, 169-191.
- Asparouhov & Muthén (2024). Penalized structural equation models. *Structural Equation Modeling*. 31, 429-454.
- Asparouhov & Muthén (2024b). Testing the number of factors in EFA and CFA. *Mplus Web Notes: No. 25*. December 14, 2024.
- Asparouhov & Muthén (2025). Methodological advances with penalized structural equation models. *Structural Equation Modeling*. 32, 688-716.
- Asparouhov & Muthén, B. (2025). Alignment for multiple group second-order factor analysis. *Mplus Web Notes: No. 27*. Version 1. December 26, 2025.
- Asparouhov & Muthén (2026). A unification of second-order and bi-factor EFA. Forthcoming in *Structural Equation Modeling*.
- Asparouhov & Muthén (2026b). DSEM EFA.

Bengt Muthén

Exploratory Factor Analysis

136/ 139

References Continued

- Browne, M.W. (2001). An overview of analytic rotation in exploratory factor analysis. *Multivariate Behavioral Research*, 36, 111–150.
- Cudeck, R. & O’Dell, L.L. (1994). Applications of standard error estimates in unrestricted factor analysis: Significance tests for factor loadings and correlations. *Psychological Bulletin*, 115, 475–487.
- Fabrigar, L.R., & Wegener, D.T. (2012). *Exploratory Factor Analysis*. Oxford University Press.
- Finch, H. (2020). *Exploratory Factor Analysis. Quantitative Applications in the Social Sciences Book 182*. Sage.
- Gorsuch, R.L. (1983). *Factor analysis (2nd ed.)*. Hillsdale, NJ: Lawrence Erlbaum.
- Holzinger, Swineford (1937). The bi-factor method. *Psychometrika*, 2, 41-54.
- Holzinger, Swineford (1939). A study in factor analysis: The stability of a bi-factor solution. *Supplementary Educational Monographs*, 48, xi, 91.
- Jennrich & Bentler (2011). Exploratory bi-factor analysis. *Psychometrika*, 76, 537-549.
- Jennrich & Bentler (2012). Exploratory bi-factor analysis: The oblique case. *Psychometrika*, 77,442-454.

Bengt Muthén

Exploratory Factor Analysis

137/ 139

References Continued

- Marsh, Nagengast, & Morin (2013). Measurement invariance of big-five factors over the life span: ESEM tests of gender, age, plasticity, maturity, and La Dolce vita effects. *Developmental Psychology*, 49, 1194-1218.
- Moore, Reise, Depaoli, & Haviland (2015). Iteration of partially-specified target matrices: Applications in exploratory and Bayesian confirmatory factor analysis. *Multivariate Behavioral Research*, 50, 149–161.
- Morin, Marsh, & Nagengast (2013). Exploratory factor analysis. Chapter 10 in Hancock & Mueller (Eds). *Structural Equation modeling: A Second Course* (2nd ed). Charlotte, NC: Information Age Publishing.
- Muthén & Asparouhov (2012). Bayesian SEM: A more flexible representation of substantive theory. *Psychological Methods*, 17, 313-335
- Muthén & Asparouhov (2018). Recent methods for the study of measurement invariance with many groups: Alignment and random effects. *Sociological Methods & Research*, 47:4 637-664.
- Muthén, B. (2025). Mplus: An Overview of its Unique Analysis Capabilities, Version 3. Forthcoming in the *Cambridge Handbook of Research Methods and Statistics for the Social and Behavioral Sciences: Volume Three*.
<https://www.statmodel.com/download/CUP.pdf>

References Continued

- Muthén, Kho, Gustafsson (1997). Multilevel latent variable modeling in multiple populations. Unpublished document. https://statmodel.com/bmuthen/articles/Article_074.pdf
- Reise, Mansolf, & Haviland (2023). Bifactor measurement models. Chapter 18 in Hoyle (ed.), *Handbook of Structural Equation Modeling*. The Guilford Press.
- Schmitt & Sass (2011). Rotation criteria and hypothesis testing for exploratory factor analysis: Implications for factor pattern loadings and interfactor correlations. *Educational and Psychological Measurement*, 95-113.
- Thompson, B. (2004). *Exploratory and confirmatory factor analysis: Understanding concepts and applications*. Washington, DC: American Psychological Association.
- Tucker, L.R. (1944). A semi-analytical method of factorial rotation to simplestructure. *Psychometrika*, 9, 43–68. van Prooijen, J., & vanderKloot, W. (2001). Confirmatory analysis of exploratively obtained factor structures. *Educational and Psychological Measurement*, 61, 777–792.
- Waller (2018). Direct Schmid-Leiman transformations and rank-deficient loading matrices. *Psychometrika*, 83, 858-870.