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**Orthogonal decompositions in growth curve models.** (English) Zbl 1228.62065

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Summary: This article shows the advantage of orthogonal decompositions in standard and extended growth curve models. Using this, the distribution of estimators of  $\rho$  and  $\sigma^2$  in the standard GCM with uniform correlation structure is derived. Also, the equivalence of Hu and von Rosen conditions in the extended GCM under mild conditions is shown.

**MSC:**

[62H12](#) Estimation in multivariate analysis  
[62H10](#) Multivariate distribution of statistics  
[62J05](#) Linear regression; mixed models

Cited in **5** Documents

**Keywords:**

[extended growth curve model](#); [uniform correlation structure](#)