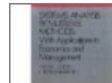


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## Systems Analysis by Multilevel Methods: With Applications to Economics and Management

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Dirickx YMI & Jennergren LP (1979). *Systems Analysis by Multilevel Methods: With Applications to Economics and Management*. Chichester, UK: John Wiley & Sons. ISBN 978-0-471-27626-5



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### Abstract

This book presents a survey of usable multilevel methods for modeling and solving decision problems in economics and management. The methods are largely extensions of linear programming and fall within the realm of column generation and decomposition. About one third of the book is concerned with methods and the rest describes case studies where these methods have actually been used. They are taken from areas such as national and regional economic planning, production planning, and transportation planning.

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The second edition of the textbook, *Multilevel Analysis: An introduction to basic and advanced multilevel modeling*, written by Tom A.B. Snijders and Roel J. Bosker, appeared November 2011 at Sage Publishers. The official publication year, however, is 2012. The Sage announcement of this book is [here](#), and [here](#) is the table of contents. A paper contrasting the use of multilevel (hierarchical linear) models with methods that control in a simpler way for clustering of data by population-averaged models: Daniel McNeish, Laura M. Stapleton, and Rebecca D. Silverman (2017). "On the unnecessary ubiquity of hierarchical linear modeling." *Psychological Methods* 22, 114-140. DOI: <http://dx.doi.org/0.1037/met0000078>. Determining the Application Suitability of Agile Methods for Highly Interdependent Products. p. 1. CrossRef. Google Scholar. This paper presents a method to account for multilevel data in the analysis of dependencies using DSM models. This method contributes to the DSM literature (Browning, Reference Browning2001) by extending representation schema that incorporate multilevel and multiple-timescale test coverage data as vectors into the off-diagonal DSM cells. These vectors provide a detailed mapping between the product architecture and the SE-V integration test tasks. This mapping is richer than conventional domain mapping matrices (DMMs; see Danilovic & Browning, Reference Danilovic and Browning2007).