Arlt J. 1999. *Moderní metody modelování ekonomických časových řad*. Grada, Praha.

Barnet A. G., Koper N., Dobson A. J., Schmiegelow F. & Manseau M. 2010. Using information criteria to select the correct variance-covariance structure for longitudinal data in ecology. *Methods in Ecology and Evolution* **1(1)**: 15–24.

Bartsch H.-J. 2006. *Matematické vzorce*. Academia, Praha.

Bivan R. S., Pebesma E. J. & Gómez-Rubio V. 2008. *Applied Spatial Data Analysis with R*. Springer, New York.

Brabec M. & Jílek K. 2007. State-space dynamic model for estimation of radon entry rate, based on Kalman filtering. *Journal of Environmental Radioactivity* **98**: 285–297.

Brockwell P. J. & Davis R. A. 1991. *Time Series: Theory and Methods*. Springer, New York.

Burnham K. P. & Anderson D. R. 2002. *Model Selection and Multi-Model Inference*. Springer, Berlin.

Chambers J. M. 2008. *Software for Data Analysis*. Springer, New York.

Cleveland W. S., Grosse E. & Shyu W. M. 1992. Local regression models. In: *Statistical Models in S* (Chambers J. M. & Hastie T. J., eds), Wadsworth & Brooks/Cole, Boca Raton, pp. 309–376.

Cochran W. G. & Cox G. M. 1957. *Experimental Designs*. Wiley, New York.

Cowpertwait P. S. P. & Metcalfe A. V. 2009. *Introductory Time Series with R*. Springer, Dordrecht.

Cressie N. A. C. 1993. *Statistics for Spatial Data*. Wiley-Interscience, New York.

Durbin J. & Koopman S. J. 2001. *Time Series Analysis by State Space Methods*. Oxford University Press, Oxford.

Efron B. & Tibshirani R. 1994. *An Introduction to the Bootstrap*. Chapman & Hall/CRC, London.

Faraway J. J. 2006. *Extending the Linear Model with R. Generalized Linear, Mixed Effects and Nonparametric Regression Models*. Chapman & Hall/CRC, Boca Raton.

Felsenstein J. 1985. Phylogenies and the comparative method. *American Naturalist* **125**: 1–15.

Felsenstein J. 2010. The Newick tree format. Available at http://evolution.genetics.washington.edu/phylip/newicktree.html

Grafen A. 1989. The phylogenetic regression. *Philosophical Transactions of the Royal Society of London, Series B, Biological Sciences* **326**: 119–157.

Hansen T. F. & Martins E. P. 1996. Translating between microevolutionary process and macroevolutionary patterns: a general model of the correlation structure of interspecific data. *Evolution* **50**: 1404–1417.

Hardin J. W. & Hilbe J. M. 2003. *Generalized Estimating Equations*. Chapman & Hall/CRC, Boca Raton.

Hurlbert S. H. 1984. Pseudoreplication and the design of ecological field experiments. *Ecological Monographs* **54(2)**: 187–211.

Lepš J. & Šmilauer P. 2003. *Multivariate Analysis of Ecological Data using CANOCO*. Cambridge University Press, Cambridge.

Liang K. Y. & Zeger S. L. 1986. Longitudinal data analysis using Generalized Linear Models. *Biometrika* **73**: 13–22.

Lynch M. & Walsh B. 1998. *Genetics and Analysis of Quantitative Traits*. Sinauer Associates, Sunderland.

Martins E. P. & Hansen T. F. 1997. Phylogenies and the comparative method: a general approach to incorporating phylogenetic information into the analysis of interspecific data. *American Naturalist* **149**: 646–667.

Mead R. 1988. *The Design of Experiments*. Cambridge University Press, Cambridge.

Motl L. & Zahradník M. 1999. *Pěstujeme lineární algebru*. Karolinum, Praha.

Paradis E. 2006. *Analysis of Phylogenetics and Evolution with R*. Springer, New York.

Paradis E. & Claude J. 2002. Analysis of comparative data using Generalized Estimating Equations. *Journal of Theoretical Biology* **218**: 175–185.

Pekár S. & Brabec M. 2009. *Moderní analýza biologických dat. 1. Zobecněné lineární modely v prostředí R*. Scientia, Praha.

Pinheiro J. C. & Bates D. M. 2000. *Mixed-Effects Models in S and S-PLUS*. Springer, New York.

Prentice R. L. & Zhao L. P. 1991. Estimating equations for parameters in means and covariances of multivariate discrete and continuous responses. *Biometrics* **47**: 825–839.

Rektorys K. 2009. *Přehled užité matematiky I a II*. Prometheus, Praha.

Resnick S. 1994. *Adventures in Stochastic Processes*. Birkhauser, Boston.

Snedecor G. W. & Cochran W. G. 1980. *Statistical Methods*. 7th edition. Iowa State University Press, Ames.

Sokal R. R. & Rohlf F. J. 2000. *Biometry*. W. H. Freeman and Company, New York.

Southwood T. R. E. & Henderson R. 2000. *Ecological Methods*. Blackwell Science, Oxford.

Tamura K., Dudley J., Nei M. & Kumar S. 2007. MEGA4: Molecular Evolutionary Genetics Analysis (MEGA) software version 4.0. *Molecular Biology and Evolution* **24**: 1596–1599.

TOL 2011. Tree of Life – web project. Available at tolweb.org/tree.

West B. T., Welch K. B. & Galecki A. T. 2007. *Linear Mixed Models. A Practical Guide Using Statistical Software*. Chapman & Hall/CRC, Boca Raton.

Wikipedia 2011a. Matrix (mathematics). Available at en.wikipedia.org/wiki/Matrix_(mathematics).

Wikipedia 2011b. Positive-definite matrix. Available at en.wikipedia.org/wiki/Positive-definite_matrix.

Zuur A. F., Ieno E. N., Walker N. J., Saveliev A. A. & Smith G. M. 2009. *Mixed Effects Models and Extensions in Ecology with R*. Springer, New York.