Further Readings on Regression Analysis

Other Good Regression Books
Pedhazur, E.J. (1997). *Multiple regression in behavioral research* (3rd Edition). Fort Worth, TX: Harcourt Brace.

Darlington, R. B., & Hayes, A. F. (2016). *Regression analysis and linear models: Concepts, applications, and implementation*. New York: Guilford Publications.

Campbell, D.T., & Kenny, D.A. (1999). *A primer on regression artifacts.* New York: Guilford Press. *(Interesting and thoughtful insights on regression to the mean, longitudinal analysis, and statistical control).*

Kutner, M.H., Nachtsheim, C., & Neter, J. (2004). *Applied linear regression models* (4th Edition). Chicago, IL: IRWIN. *(pretty technical)*

Fox, J. (2016). *Applied Regression Analysis and Generalized Linear Model (3rd Edition).* Thousand Oaks, CA: Sage. *(pretty technical)*

Interactions with Multiple Regression
Aiken, L.S., & West, S.W. (1991). *Testing and interpreting interactions*. Newbury Park, CA: Sage.

West, S.G., Aiken, L.S., & Krull, J.L. (1996). Experimental personality designs: Analyzing categorical by continuous variable interactions. *Journal of Personality*, *64*, 1-48.

McClelland, G.H., & Judd, C.M. (1993). Statistical difficulties of detecting interactions and moderator effects. *Psychological Bulletin*, *114*, 376-390.

Dawson, J. F., & Richter, A. W. (2006). Probing three-way interactions in moderated multiple regression: Development and application of a slope difference test. *Journal of Applied Psychology, 91*, 917-926.

Aguinis, H. (2004). *Regression analysis for categorical moderators*. New York: Guilford.

Hayes, A. F. (2018). *Introduction to mediation, moderation, and conditional process analysis: A regression-based approach, second edition*. Guilford Press.

Jaccard, J. (2001). *Interaction effects in logistic regression.* Thousand Oaks, CA: Sage. QASS #135.

Dummy Coding and Effects Coding with Regression
Hardy, M.A. (1993). *Regression with dummy variables*. Newbury Park, CA: Sage.

See also West, Aiken, & Krull (1996) reference above.

Regression Diagnostics
Fox, J. (1991). *Regression diagnostics*. Newbury Park, CA: Sage.

Bollen, K.A., & Jackman, R.W. (1990). Regression diagnostics: An expository treatment of outliers and influential cases. In J. Fox & J.S. Long (Eds.), *Modern methods of data analysis*. Newbury Park, CA: Sage.

Fox, J. (2016). *Applied Regression Analysis and Generalized Linear Model (3rd Edition).* Thousand Oaks, CA: Sage.

Belsley, D. A., Kuh, E., & Welsch, R. E. (2005). Regression diagnostics: Identifying influential data and sources of collinearity (Vol. 571). New York: Wiley.

Menard, Scott. (2010). Logistic Regression: From Introductory to Advanced Concepts and Applications. Thousand Oaks, CA: Sage. (Chapter 7)

Path Analysis and Mediation
MacKinnon, D.P. (2008). *Introduction to statistical mediation analysis*. Mahwah, NJ: Erlbaum.

Preacher, K. J., & Hayes, A. F. (2004). SPSS and SAS procedures for estimating indirect effects in simple mediation models. *Behavior Research Methods, Instruments, & Computers*, *36*(4), 717-731.

MacKinnon, D. P., & Dwyer, J. H. (1993). Estimating mediated effects in prevention studies. *Evaluation Review*, *17*(2), 144-158.

Hayes, A. F., & Scharkow, M. (2013). The relative trustworthiness of inferential tests of the indirect effect in statistical mediation analysis does method really matter? *Psychological Science, 24*(10), 1918-1927.

Maruyama, G. (1998). *Basics of Structural Equation Modeling*. Thousand Oaks: Sage.

Preacher, K. J., & Kelley, K. (2011). Effect size measures for mediation models: quantitative strategies for communicating indirect effects.*Psychological methods*, *16*(2), 93.

Hayes, A. F. (2018). *Introduction to mediation, moderation, and conditional process analysis: A regression-based approach*, *second edition* New York: Guilford Press.

Hayes, A. F. (2018). Partial, conditional, and moderated mediation: Quantification, inference, and interpretation, *Communication Monographs, 85*, 4-40.

Goldsmith, K. A., MacKinnon, D. P., Chalder, T., White, P. D., Sharpe, M., & Pickles, A. (2018). Tutorial: The practical application of longitudinal structural equation mediation models in clinical trials. *Psychological Methods, 23*(2), 191-207.

Alwin, D. F., & Hauser, R. M. (1975). The decomposition of effects in path analysis. *American Sociological Review, 40*, 37-47.

Power and Sample Size with Regression

Cohen, J. (1992). A power primer. *Psychological Bulletin*, *112*, 155-159.

Green, S.B. (1991). How many subjects does it take to do a regression analysis? *Multivariate Behavioral Research*, *26*, 499-510.

Kraemer, H. C., & Blasey, C. (2015). *How many subjects?: Statistical power analysis in research*. Sage Publications.

Aberson, C. L. (2019). *Applied power analysis for the behavioral sciences, second edition*. Routledge.

Longitudinal Analysis with Regression and Logistic Regression

Menard, Scott. (2010). Logistic Regression: From Introductory to Advanced Concepts and Applications. Thousand Oaks, CA: Sage. (Chapter 13).

Cohen, J., Cohen, P., West, S.G., & Aiken, L.S. (2003). *Applied multiple regression/correlation analysis in the behavioral sciences (Third Edition*). Mahwah, NJ: Erlbaum.

Newsom, J.T., Jones, J.N. & Hofer, S.M. (Eds.). (2012). *Longitudinal data analysis: A practical guide for researchers in aging, health, and social sciences.* New York: Routledge. (Chapter 5)

Newsom, J.T. (2015). *Longitudinal Structural Equation Modeling: A Comprehensive Introduction.* New York: Routledge. (Chapter 4)

Logistic Regression

Pampel, F.C. (2000). *Logistic regression: A primer.* Thousand Oaks, CA: Sage. QASS #132.

Menard, Scott. (2010). *Logistic Regression: From Introductory to Advanced Concepts and Applications.* Thousand Oaks, CA: Sage.

Hosmer Jr, D. W., Lemeshow, S., & Sturdivant, R. X. (2013). *Applied logistic regression*. New York: John Wiley & Sons.

Allison, P. D. (2012). *Logistic regression using SAS: Theory and application*. SAS Institute. *(although examples use SAS, a very useful practical guide generally).*

Long, J.S. (1997). *Regression models for categorical and limited dependent variables*. Thousand Oaks, CA: Sage. *(technical, but the best source on ordinal and multicategory regression modeling*).

Agresti, A. (2013). *Categorical data analysis*. New York: Wiley. (essential general resource on all categorical data analysis).

Probit Models, Multinomial Regression Models, Ordered Logistic Models, and Models for Count Data

O'Connell, A.A. (2006). *Logistic regression models for ordinal response variables*. Thousand Oaks, CA: Sage. QASS #146.

Borooah, V.K. (2002). *Logit and probit: Ordered and multinomial models*. Thousand Oaks, CA: Sage. QASS #138.

Aldrich, J.H., & Nelson, F.D. (1984). *Linear probability, logit, and probit models.* Newbury Park, NJ: Sage. QASS #45.

Long, J.S. (1997). *Regression models for categorical and limited dependent variables*. Thousand Oaks, CA: Sage.

Agresti, A. (2015). Foundations of linear and generalized linear models. John Wiley & Sons. (*pretty technical*)

Dunteman, G.H., & Ho, M-H.R. (2006). *An introduction to generalized linear models.* Thousand Oaks, CA: Sage. QASS # 145.

Gardner, W., Mulvey, E.P., & Shaw, E.C. (1995). Regression analysis of counts and rates: Poisson, overdispersed Poisson, and negative binomial models. *Psychological Bulletin, 118*, 392-404.

Coxe, S., West, S.G., & Aiken, L.S. (2009). The Analysis of Count Data: A Gentle Introduction to Poisson Regression and Its Alternatives. *Journal of Personality Assessment, 91,* 121–136.

Survival Analysis

Allison, P.D. (1984). *Event history analysis: Regression for longitudinal event data*. Newbury Park, NJ: Sage. QASS #46.

Allison, P.D. (2010). *Survival analysis using SAS: A practical guide (Second Edition)*. Cary, NC: SAS. *(although examples use SAS, a very useful practical guide generally)*

Hosmer, D.W., Jr., & Lemeshow, S. (1999). *Applied survival analysis: Regression modeling of time to event data.* New York: Wiley.

Singer, J.D., & Willett, J.B. (2003). *Applied longitudinal data analysis: Modeling change and event occurrence.* New York: Oxford.

Graham, S.E., Willett, J.B., & Singer, J.D (2012). Using discrete-time survival analysis to study event occurrence. In Newsom, J.T., Jones, R. N., & Hofer, S. M. (Eds.), *Longitudinal data analysis: a practical guide for researchers in aging, health, and social sciences* (pp. 329-371). New York: Routledge.

Complex Sampling Designs

Lee, E.S., & Forthofer, R.N. (2006). *Analyzing complex survey data (2nd Edition).* Thousand Oaks, CA: Sage. QASS #71.

Lohr, S.L. (1999). *Sampling: Design and analysis.* Pacific Grove, CA: Duxbury.

Levy, P.S., & Lemeshow, S. (1999). *Sampling of populations: Methods and applications (3rd edition)*. New York: Wiley. *(more technical, but the most comprehensive).*

Heeringa, S., West, B.T., & Berglund, P.A. (2010). *Applied survey data analysis.* Boca Raton, FL: Taylor & Francis.

Cunningham, S.D., & Huguet, N. (2012). Weighting and complex sampling designs in longitudinal studies. In Newsom, J.T., Jones, R. N., & Hofer, S. M. (Eds.), *Longitudinal data analysis: A practical guide for researchers in aging, health, and social sciences* (pp. 43-69). New York: Routledge.

Missing Data

Enders, C.K. (2022). *Applied missing data analysis, second edition.* New York: Guilford.

Schafer, J.L., & Graham, J.W. (2002). Missing data: Our view of the state of the art. *Psychological Methods, 7,* 147-177.

Little, R.J.A., & Rubin, D.B. (2002). *Statistical Analysis with Missing Data, 2nd edition*. New York: John Wiley. (*pretty technical*)

Multivariate Analysis

Pituch, K. A., & Stevens, J. P. (2015). *Applied multivariate statistics for the social sciences: Analyses with SAS and IBM's SPSS.* New York: Routledge.

Tabachnick, B.G. and Fidell, L.S. (2013). Using multivariate statistics, sixth edition. Boston: Pearson.

Tatsuoka, M. M. (1988). *Multivariate analysis: Techniques for educational and psychological research*. New York: Macmillan. (*More technical*)

Johnson, R. A., & Wichern, D. (2002). *Multivariate analysis.* New York: Wiley. (*Pretty technical*)