Α

Agresti, A., Bini, M., Bertaccini, B, and Ryu, E. 2008. "Simultaneous Confidence Intervals for Comparing Binomial Parameters." *Biometrics*, 64, pages 1270-1275.

Agresti, A. and Caffo, B. 2000. "Simple and effective confidence intervals for proportions and differences of proportions result from adding two successes and two failures," *American Statistician*, Volume 54, pages 280-288.

Agresti, A. and Coull, B. 1998. "Approximate is Better than 'Exact' for Interval Estimation of Binomial Proportions," *American Statistician*, Volume 52 Number 2, pages 119-126.

A'Hern, R. P. A. 2001. "Sample size tables for exact single-stage phase II designs." *Statistics in Medicine*, Volume 20, pages 859-866.

AIAG (Automotive Industry Action Group). 1995. *Measurement Systems Analysis*. This booklet was developed by Chrysler/Ford/GM Supplier Quality Requirements Task Force. It gives a detailed discussion of how to design and analyze an R&R study. The book may be obtained from ASQC or directly from AIAG by calling 801-358-3570.

Akaike, H. 1973. "Information theory and an extension of the maximum likelihood principle," In B. N. Petrov & F. Csaki (Eds.), *The second international symposium on information theory*. Budapest, Hungary: Akademiai Kiado.

Akaike, H. 1974. "A new look at the statistical model identification," *IEEE Transactions on Automatic Control*, 19, (6): pages 716-723.

Albert, A. and Harris, E. 1987. *Multivariate Interpretation of Clinical Laboratory Data*. Marcel Dekker, New York, New York. This book is devoted to a discussion of how to apply multinomial logistic regression to medical diagnosis. It contains the algorithm that is the basis of our multinomial logistic regression routine.

Allen, D. and Cady, F. 1982. *Analyzing Experimental Data by Regression*. Wadsworth. Belmont, Calif. This book works completely through several examples. It is very useful to those who want to see complete analyses of complex data.

Al-Sunduqchi, Mahdi S. 1990. *Determining the Appropriate Sample Size for Inferences Based on the Wilcoxon Statistics*. Ph.D. dissertation under the direction of William C. Guenther, Dept. of Statistics, University of Wyoming, Laramie, Wyoming.

Altman, Douglas. 1991. *Practical Statistics for Medical Research*. Chapman & Hall. New York, NY. This book provides an introductory discussion of many statistical techniques that are used in medical research. It is the only book we found that discussed ROC curves.

Altman, Douglas. 1993. "Construction of Age-Related Reference Centiles Using Absolute Residuals," *Statistics in Medicine*, Volume 12, pages 917-924.

Altman, D. and Chitty, L.S. 1994. "Charts of Fetal Size: Methodology," *British Journal of Obstetrics and Gynaecology*, Volume 101, pages 29-34.

Andersen, P.K., Borgan, O., Gill, R.D., and Keiding, N. 1997. *Statistical Models Based on Counting Processess*. Springer-Verlag, New York. This is an advanced book giving many of the theoretically developments of survival analysis.

Anderson, R.L. and Hauck, W.W. 1983. "A new Procedure for testing equivalence in comparative bioavailability and other clinical trials." *Commun. Stat. Theory Methods.*, Volume 12, pages 2663-2692.

Anderson, T.W. and Darling, D.A. 1954. "A test of goodness-of-fit." J. Amer. Statist. Assoc, Volume 49, pages 765-769.

Andrews, D.F., and Herzberg, A.M. 1985. *Data*. Springer-Verlag, New York. This book is a collection of many different data sets. It gives a complete description of each.

Armitage, P. 1955. "Tests for linear trends in proportions and frequencies." *Biometrics*, Volume 11, pages 375-386.

Armitage, P., and Colton, T. 1998. Encyclopedia of Biostatistics. John Wiley, New York.

Armitage, P., McPherson, C.K., and Rowe, B.C. 1969. "Repeated significance tests on accumulating data." *Journal of the Royal Statistical Society, Series A*, 132, pages 235-244.

Atkinson, A.C. 1985. *Plots, Transformations, and Regression*. Oxford University Press, Oxford (also in New York). This book goes into the details of regression diagnostics and plotting. It puts together much of the recent work in this area.

Atkinson, A.C., and Donev, A.N. 1992. *Optimum Experimental Designs*. Oxford University Press, Oxford. This book discusses D-Optimal designs.

Austin, P.C., Grootendorst, P., and Anderson, G.M. 2007. "A comparison of the ability of different propensity score models to balance measured variables between treated and untreated subjects: A Monte Carlo study," *Statistics in Medicine*, Volume 26, pages 734-753.

В

Bablok, W., Passing H., Bender, R., and Schneider, B. 1988. "A General Regression Procedure for Method Transformation. Application of linear regression procedures for method comparison studies in clinical chemistry, Part III." *J. Clin. Chem. Clin. Biochem.* 26, 783-790.

Bain, L.J. and Engelhardt, M. 1991. *Statistical Analysis of Reliability and Life-Testing Models*. Marcel Dekker. New York. This book contains details for testing data that follow the exponential and Weibull distributions.

Baker, Frank. 1992. *Item Response Theory*. Marcel Dekker. New York. This book contains a current overview of IRT. It goes through the details, providing both formulas and computer code. It is not light reading, but it will provide you with much of what you need if you are attempting to use this technique.

Barnard, G.A. 1947. "Significance tests for 2 x 2 tables." Biometrika 34:123-138.

Baker, Frank. 1992. *Item Response Theory*. Marcel Dekker. New York. This book contains a current overview of IRT. It goes through the details, providing both formulas and computer code. It is not light reading, but it will provide you with much of what you need if you are attempting to use this technique.

Barnett, V. and Lewis, T. 1994. *Outliers in Statistical Data* – 3^{rd} *Edition*. John Wiley & Sons. New York. A comprehensive treatise of this subject.

Baron, R.M. and Kenny, D.A. 1986. "The moderator-mediator variable distinction in social psychological research." *Journal of Personality and Social Psychology. Volume 5, Number 6, Pages* 1173-1182.

Bartholomew, D.J. 1963. "The Sampling Distribution of an Estimate Arising in Life Testing." *Technometrics*, Volume 5 No. 3, 361-374.

Bartlett, M.S. 1937. "Properties of sufficiency and statistical tests." *Proceedings of the Royal Statistical Society, Series A 160, 268-282.*

Bartlett, M.S. 1950. "Tests of significance in factor analysis." *British Journal of Psychology (Statistical Section)*, 3, 77-85.

Bates, D. M. and Watts, D. G. 1981. "A relative offset orthogonality convergence criterion for nonlinear least squares," *Technometrics*, Volume 23, 179-183.

Beal, S. L. 1987. "Asymptotic Confidence Intervals for the Difference between Two Binomial Parameters for Use with Small Samples." *Biometrics*, Volume 43, Issue 4, 941-950.

Belsley, Kuh, and Welsch. 1980. *Regression Diagnostics*. John Wiley & Sons. New York. This is the book that brought regression diagnostics into the main-stream of statistics. It is a graduate level treatise on the subject.

Benjamini, Y. and Hochberg, Y. 1995. "Controlling the False Discovery Rate: A Practical and Powerful Approach to Multiple Testing," *Journal of the Royal Statistical Society, Series B (Methodological),* Vol. 57, No. 1, 289-300.

Bertsekas, D.P. 1991. Linear Network Optimization: Algorithms and Codes. MIT Press. Cambridge, MA.

Blackwelder, W.C. 1993. "Sample size and power in prospective analysis of relative risk." *Statistics in Medicine*, Volume 12, 691-698.

Blackwelder, W.C. 1998. "Equivalence Trials." In *Encyclopedia of Biostatistics*, John Wiley and Sons. New York. Volume 2, 1367-1372.

Bloomfield, **P**. 1976. *Fourier Analysis of Time Series*. John Wiley and Sons. New York. This provides a technical introduction to fourier analysis techniques.

Bock, R.D., Aiken, M. 1981. "Marginal maximum likelihood estimation of item parameters. An application of an EM algorithm. *Psychometrika*, 46, 443-459.

Bolstad, B.M., et al. 2003. A Comparison of Normalization Methods for High Density Oligonucleotide Array Data Based on Variance and Bias. *Bioinformatics*, 19, 185-193.

Bonett, D. G. and Wright, T. A. 2000. "Sample Size Requirements for Estimating Pearson, Kendall and Spearman Correlations." *Psychometrika*, Vol. 65, No. 1 (March), pages 23-28.

Bonett, Douglas. 2002. "Sample Size Requirements for Testing and Estimating Coefficient Alpha." *Journal of Educational and Behavioral Statistics*, Vol. 27, pages 335-340.

Bowerman, B.L. and O'Connell, R.T. 1993. *Forecasting and Time Series: An Applied Approach*. Duxbury: Belmont, California.

Box, G.E.P. 1949. "A general distribution theory for a class of likelihood criteria." Biometrika, 1949, 36, 317-346.

Box, G.E.P. 1954a. "Some Theorems on Quadratic Forms Applied in the Study of Analysis of Variable Problems: I." *Annals of Mathematical Statistics*, **25**, 290-302.

Box, G.E.P. 1954b. "Some Theorems on Quadratic Forms Applied in the Study of Analysis of Variable Problems: II." *Annals of Mathematical Statistics*, **25**, 484-498.

Box, G.E.P. and Cox, D.R. 1964. "An analysis of transformations." *Journal of the Royal Statistical Society, Series B*, 26, 211-243 (discussion pp. 244-252).

Box, G.E.P., Hunter, S. and Hunter. 1978. *Statistics for Experimenters*. John Wiley & Sons, New York. This is probably the leading book in the area experimental design in industrial experiments. You definitely should acquire and study this book if you plan anything but a casual acquaintance with experimental design. The book is loaded with examples and explanations.

Box, G.E.P. and Jenkins, G.M. 1976. *Time Series Analysis - Forecasting and Control*. Holden-Day.: San Francisco, California. This is the landmark book on ARIMA time series analysis.

Bradley, J.V. 1968. *Distribution-Free Statistical Tests*. Prentice Hall, Englewood Cliffs, New Jersey. **Breslow, N. E.** and **Day, N. E.** 1980. *Statistical Methods in Cancer Research: Volume 1. The Analysis of Case-Control Studies*. Lyon: International Agency for Research on Cancer.

Brown, H., and Prescott, R. 2006. *Applied Mixed Models in Medicine*. 2nd ed. John Wiley & Sons Ltd. Chichester, West Sussex, England.

Brown, M.B. and Forsythe, A.B. 1974. "*Robust Tests for Equality of Variances*." *Journal of the American Statistical Association*, Vol. 69, pages 364-367.

Brush, Gary G. 1988. *Volume 12: How to Choose the Proper Sample Size*, American Society for Quality Control, 310 West Wisconsin Ave, Milwaukee, Wisconsin, 53203. This is a small workbook for quality control workers.

Burdick, R.K. and Larsen, G.A. 1997. "Confidence Intervals on Measures of Variability in R&R Studies." *Journal of Quality Technology, Vol. 29, No. 3, Pages 261-273.* This article presents the formulas used to construct confidence intervals in an R&R study.

Bury, Karl. 1999. *Statistical Distributions in Engineering*.. Cambridge University Press. New York, NY. (www.cup.org).

С

Cameron, A.C. and Trivedi, P.K. 1998. *Regression Analysis of Count Data*. Cambridge University Press. New York, NY.

Cameron, A.C. and Trivedi, P.K. 2010. *Microeconometrics Using Stata, Revised Edition*. Stata Press. College Station, Texas.

Cameron, A.C. and Trivedi, P.K. 2013. *Regression Analysis of Count Data, Second Edition*. Cambridge University Press. New York, NY.

Campbell, M.J. and Walters, S.J. 2014. *How to Design, Analyse, and Report Cluster Randomised Trials in Medicine and Health Related Research.* John Wiley & Sons. New York.

Carmines, E.G. and Zeller, R.A. 1990. *Reliability and Validity Assessment*. Sage University Paper. 07-017. Newbury Park, CA.

Casagrande, J. T., Pike, M.C., and Smith, P. G. 1978. "The Power Function of the "Exact" Test for Comparing Two Binomial Distributions," *Applied Statistics*, Volume 27, No. 2, pages 176-180. This article presents the algorithm upon which our Fisher's exact test is based.

Cattell, R.B. 1966. "The scree test for the number of factors." Mult. Behav. Res. 1, 245-276.

Cattell, R.B. and Jaspers, J. 1967. "A general plasmode (No. 30-10-5-2) for factor analytic exercises and research." *Mult. Behav. Res. Monographs*. 67-3, 1-212.

Chambers, J.M., Cleveland, W.S., Kleiner, B., and Tukey, P.A. 1983. *Graphicals Methods for Data Analysis.* Duxbury Press, Boston, Mass. This wonderful little book is full of examples of ways to analyze data graphically. It gives complete (and readable) coverage to such topics as scatter plots, probability plots, and box plots. It is strongly recommended.

Chatfield, C. 1984. *The Analysis of Time Series, 3rd Edition*. Chapman and Hall. New York. This book gives a very readable account of both ARMA modeling and spectral analysis.

Chatfield, C. 2004. *The Analysis of Time Series, 6th Edition*. Chapman and Hall. New York. This book gives a very readable account of both ARMA modeling and spectral analysis.

Chatterjee and Price. 1979. *Regression Analysis by Example*. John Wiley & Sons. New York. A great hands-on book for those who learn best from examples. A newer edition is now available.

Chen, K.W.; Chow, S.C.; and Li, G. 1997. "A Note on Sample Size Determination for Bioequivalence Studies with Higher-Order Crossover Designs" *Journal of Pharmacokinetics and Biopharmaceutics*, Volume 25, No. 6, pages 753-765.

Chen, T. T. 1997. "Optimal Three-Stage Designs for Phase II Cancer Clinical Trials." *Statistics in Medicine*, Volume 16, pages 2701-2711.

Chen, Xun. 2002. "A quasi-exact method for the confidence intervals of the difference of two independent binomial proportions in small sample cases." *Statistics in Medicine*, Volume 21, pages 943-956.

Chow, S.C. and Liu, J.P. 1999. *Design and Analysis of Bioavailability and Bioequivalence Studies*. Marcel Dekker. New York.

Chow, S.C.; Shao, J.; Wang, H. 2003. *Sample Size Calculations in Clinical Research*. Marcel Dekker. New York. Chow, S.-C.; Shao, J.; Wang, H. 2008. *Sample Size Calculations in Clinical Research, Second Edition*. Chapman & Hall/CRC. Boca Raton, Florida.

Chuang-Stein, C. and Tong, D.M. 1995. "Multiple comparisons procedures for comparing several treatments with a control based on binary data," *Statistics in Medicine*, Volume 14, pages 2509-2522.

CLSI. EP09-A3. 2013. *Measurement Procedure Comparison and Bias Estimation Using Patient Samples; Approved Guideline – Third Edition.* Clinical and Laboratory Standards Institute.

CLSI. EP28-A3c. 2010. *Defining, Establishing, and Verifying Reference intervals in the Clinical Laboratory.* Clinical and Laboratory Standards Institute.

Cochran, W.G. 1971. Sampling Techniques. John Wiley & Sons. New York.

Cochran and Cox. 1992. *Experimental Designs. Second Edition.* John Wiley & Sons. New York. This is one of the classic books on experimental design, first published in 1957.

Cochran, W.G. and Rubin, D.B. 1973. "Controlling bias in observational studies," *Sankhya, Ser. A*, Volume 35, Pages 417-446.

Cohen, Jacob. 1988. *Statistical Power Analysis for the Behavioral Sciences*, Lawrence Erlbaum Associates, Hillsdale, New Jersey. This is a very nice, clearly written book. There are MANY examples. It is the largest of the sample size books. It does not deal with clinical trials.

Cohen, Jacob. 1990. "Things I Have Learned So Far." *American Psychologist*, December, 1990, pages 1304-1312. This is must reading for anyone still skeptical about the need for power analysis.

Collett, D. 1991. *Modelling Binary Data*. Chapman & Hall, New York, New York. This book covers such topics as logistic regression, tests of proportions, matched case-control studies, and so on.

Collett, D. 1994. *Modelling Survival Data in Medical Research*. Chapman & Hall, New York, New York. This book covers such survival analysis topics as Cox regression and log rank tests.

Conlon, M. and Thomas, R. 1993. "The Power Function for Fisher's Exact Test." *Applied Statistics*, Volume 42, No. 1, pages 258-260. This article was used to validate the power calculations of Fisher's Exact Test in PASS. Unfortunately, we could not use the algorithm to improve the speed because the algorithm requires equal sample sizes.

Conover, W.J. 1971. Practical Nonparametric Statistics. John Wiley & Sons, Inc. New York.

Conover, W.J. 1999. Practical Nonparametric Statistics. 3rd Edition. John Wiley & Sons, New York.

Conover, W.J., Johnson, M.E., and **Johnson, M.M.** 1981. "A Comparative Study of Tests for Homogeneity of Variances, with Applications to the Outer Continental Shelf Bidding Data." *Technometrics*, **23**, 351-361.

Cook, D. and Weisberg, S. 1982. *Residuals and Influence in Regression*. Chapman and Hall. New York. This is an advanced text in the subject of regression diagnostics.

Cooley, W.W. and Lohnes, P.R. 1985. *Multivariate Data Analysis*. Robert F. Krieger Publishing Co. Malabar, Florida.

Cox, D. R. 1972. "Regression Models and life tables." *Journal of the Royal Statistical Society, Series B*, Volume 34, Pages 187-220. This article presents the proportional hazards regression model.

Cox, D. R. 1975. "Contribution to discussion of Mardia (1975a)." *Journal of the Royal Statistical Society, Series B*, Volume 37, Pages 380-381.

Cox, D.R. and Snell, E.J. 1981. *Applied Statistics: Principles and Examples.* Chapman & Hall. London, England. **Cureton, E.E. and D'Agostino, R.B.** 1983. *Factor Analysis - An Applied Approach.* Lawrence Erlbaum Associates. Hillsdale, New Jersey. (This is a wonderful book for those who want to learn the details of what factor analysis does. It has both the theoretical formulas and simple worked examples to make following along very easy.)

D

D'Agostino, R.B., Belanger, A., D'Agostino, R.B. Jr. 1990."A Suggestion for Using Powerful and Informative Tests of Normality.", *The American Statistician*, November 1990, Volume 44 Number 4, pages 316-321. This tutorial style article discusses D'Agostino's tests and tells how to interpret normal probability plots.

D'Agostino, R.B., Chase, W., Belanger, A. 1988."The Appropriateness of Some Common Procedures for Testing the Equality of Two Independent Binomial Populations.", *The American Statistician*, August 1988, Volume 42 Number 3, pages 198-202.

D'Agostino, R.B. Jr. 2004. Tutorials in Biostatistics. Volume 1. John Wiley & Sons. Chichester, England.

Dallal, G. 1986. "An Analytic Approximation to the Distribution of Lilliefors's Test Statistic for Normality," *The American Statistician*, Volume 40, Number 4, pages 294-296.

Daniel, C. and Wood, F. 1980. *Fitting Equations to Data*. John Wiley & Sons. New York. This book gives several in depth examples of analyzing regression problems by computer.

Daniel, W. 1990. Applied Nonparametric Statistics. 2nd ed. PWS-KENT Publishing Company. Boston.

Davies, Owen L. 1971. *The Design and Analysis of Industrial Experiments*. Hafner Publishing Company, New York. This was one of the first books on experimental design and analysis. It has many examples and is highly recommended.

Davis, J. C. 1985. *Statistics and Data Analysis in Geology*. John Wiley. New York. (A great layman's discussion of many statistical procedures, including factor analysis.)

Davison, A.C. and Hinkley, D.V. 1999. *Bootstrap Methods and their Applications*. Cambridge University Press. NY, NY. This book provides and detailed account of bootstrapping.

Davison, Mark. 1983. *Multidimensional Scaling*. John Wiley & Sons. NY, NY. This book provides a very good, although somewhat advanced, introduction to the subject.

DeLong, E.R., DeLong, D.M., and Clarke-Pearson, D.L. 1988. "Comparing the Areas Under Two or More Correlated Receiver Operating Characteristic Curves: A Nonparametric Approach." *Biometrics*, 44, pages 837-845.

DeMets, D.L. and Lan, K.K.G. 1984. "An overview of sequential methods and their applications in clinical trials." *Communications in Statistics, Theory and Methods*, 13, pages 2315-2338.

DeMets, D.L. and Lan, K.K.G. 1994. "Interim analysis: The alpha spending function approach." *Statistics in Medicine*, 13, pages 1341-1352.

Demidenko, E. 2004. Mixed Models – Theory and Applications. John Wiley & Sons. Hoboken, New Jersey.

Desu, M. M. and Raghavarao, D. 1990. *Sample Size Methodology*. Academic Press. New York. (Presents many useful results for determining sample sizes.)

DeVor, Chang, and Sutherland. 1992. *Statistical Quality Design and Control*. Macmillan Publishing. New York. This is a comprehensive textbook of SPC including control charts, process capability, and experimental design. It has many examples. 800 pages.

Devroye, Luc. 1986. *Non-Uniform Random Variate Generation*. Springer-Verlag. New York. This book is currently available online at http://jeff.cs.mcgill.ca/~luc/rnbookindex.html.

Diggle, P.J., Liang, K.Y., and Zeger, S.L. 1994. *Analysis of Longitudinal Data*. Oxford University Press. New York, New York.

Dillon, W. and Goldstein, M. 1984. *Multivariate Analysis - Methods and Applications*. John Wiley. NY, NY. This book devotes a complete chapter to loglinear models. It follows Fienberg's book, providing additional discussion and examples.

Dixon, W. J. and Tukey, J. W. 1968. "Approximate behavior of the distribution of Winsorized t," *Technometrics*, Volume 10, pages 83-98.

Dodson, B. 1994. *Weibull Analysis*. ASQC Quality Press. Milwaukee, Wisconsin. This paperback book provides the basics of Weibull fitting. It contains many of the formulas used in our Weibull procedure.

Donnelly, Thomas G. 1980. "ACM Algorithm 462: Bivariate Normal Distribution," *Collected Algorithms from ACM*, Volume II, New York, New York.

Donner, Allan. 1984. "Approaches to Sample Size Estimation in the Design of Clinical Trials--A Review," *Statistics in Medicine*, Volume 3, pages 199-214. This is a well done review of the clinical trial literature. Although it is becoming out of date, it is still a good place to start.

Donner, A. and Klar, N. 1996. "Statistical Considerations in the Design and Analysis of Community Intervention Trials." *The Journal of Clinical Epidemiology*, Vol. 49, No. 4, 1996, pages 435-439.

Donner, A. and Klar, N. 2000. *Design and Analysis of Cluster Randomization Trials in Health Research*. Arnold. London.

Draghici, S. 2003. *Data Analysis Tools for DNA Microarrays*. Chapman & Hall/CRC. London. This is an excellent overview of most areas of Microarray analysis.

Draper, N.R. and Smith, H. 1966. *Applied Regression Analysis*. John Wiley & Sons. New York. This is a classic text in regression analysis.

Draper, N.R. and Smith, H. 1981. *Applied Regression Analysis - Second Edition*. John Wiley & Sons. New York, NY. An improved version of the classic text.

Draper, N.R. and Smith, H. 1998. *Applied Regression Analysis - Third Edition*. John Wiley & Sons. New York, NY. An improved version of the classic text.

Dudoit, S., Shaffer, J.P., and Boldrick, J.C. 2003. "Multiple Hypothesis Testing in Microarray Experiments," *Statistical Science*, Volume 18, No. 1, pages 71-103.

Dudoit, S., Yang, Y.H., Callow, M.J., and **Speed, T.P.** 2002. "Statistical Methods for Identifying Differentially Expressed Genes in Replicated cDNA Experiments," *Statistica Sinica*, Volume 12, pages 111-139.

du Toit, S.H.C., Steyn, A.G.W., and Stumpf, R.H. 1986. *Graphical Exploratory Data Analysis*. Springer-Verlag. New York. This book contains examples of graphical analysis for a broad range of topics.

Dunn, O. J. 1964. "Multiple comparisons using rank sums," Technometrics, Volume 6, pages 241-252.

Dunnett, C. W. 1955. "A Multiple comparison procedure for Comparing Several Treatments with a Control," *Journal of the American Statistical Association*, Volume 50, pages 1096-1121.

Dunteman, G.H. 1989. *Principal Components Analysis*. Sage University Papers, 07-069. Newbury Park, California. Telephone (805) 499-0721. This monograph costs only \$7. It gives a very good introduction to PCA.

Dupont, William. 1988. "Power Calculations for Matched Case-Control Studies," *Biometrics*, Volume 44, pages 1157-1168.

Dupont, William and **Plummer, Walton D.** 1990. "Power and Sample Size Calculations--A Review and Computer Program," *Controlled Clinical Trials*, Volume 11, pages 116-128. Documents a nice public-domain program on sample size and power analysis.

Durbin, J. and Watson, G. S. 1950. "Testing for Serial Correlation in Least Squares Regression - I," *Biometrika*, Volume 37, pages 409-428.

Durbin, J. and Watson, G. S. 1951. "Testing for Serial Correlation in Least Squares Regression - II," *Biometrika*, Volume 38, pages 159-177.

Dyke, G.V. and Patterson, H.D. 1952. "Analysis of factorial arrangements when the data are proportions." *Biometrics*. Volume 8, pages 1-12. This is the source of the data used in the LLM tutorial.

Ε

Eckert, Joseph K. 1990. *Property Appraisal and Assessment Administration*. International Association of Assessing Officers. 1313 East 60th Street. Chicago, IL 60637-2892. Phone: (312) 947-2044. This is a how-to manual published by the IAAO that describes how to apply many statistical procedures to real estate appraisal and tax assessment. We strongly recommend it to those using our *Assessment Model* procedure.

Edgington, E. 1987. *Randomization Tests*. Marcel Dekker. New York. A comprehensive discussion of randomization tests with many examples.

Edwards, L.K. 1993. Applied Analysis of Variance in the Behavior Sciences. Marcel Dekker. New York.

Efron, B. and Tibshirani, R. J. 1993. An Introduction to the Bootstrap. Chapman & Hall. New York.

Elandt-Johnson, R.C. and Johnson, N.L. 1980. *Survival Models and Data Analysis*. John Wiley. NY, NY. This book devotes several chapters to population and clinical life-table analysis.

Eldridge, S. and Kerry, S. 2012. A Practical Guide to Cluster Randomised Trials in Health Services Research. John Wiley & Sons. New York.

Epstein, Benjamin. 1960. "Statistical Life Test Acceptance Procedures." *Technometrics*. Volume 2.4, pages 435-446.

Everitt, B.S. and Dunn, G. 1992. *Applied Multivariate Data Analysis*. Oxford University Press. New York. This book provides a very good introduction to several multivariate techniques. It helps you understand how to interpret the results.

F

Farrington, C. P. and Manning, G. 1990. "Test Statistics and Sample Size Formulae for Comparative Binomial Trials with Null Hypothesis of Non-Zero Risk Difference or Non-Unity Relative Risk." *Statistics in Medicine*, Vol. 9, pages 1447-1454. This article contains the formulas used for the Equivalence of Proportions module in PASS.

Feldt, L.S.; Woodruff, D.J.; & Salih, F.A. 1987. "Statistical inference for coefficient alpha." *Applied Psychological Measurement*, Vol. 11, pages 93-103.

Feldt, L.S.; Ankenmann, R.D. 1999. "Determining Sample Size for a Test of the Equality of Alpha Coefficients When the Number of Part-Tests is Small." *Psychological Methods*, Vol. 4(4), pages 366-377.

Fieller, E.C.; Hartley, H.O.; & Pearson, E.S. 1957. "Tests for rank correlation coefficients. I." *Biometrika* 44, pages 470-481.

Fieller, E.C.; Hartley, H.O.; & Pearson, E.S. 1961. "Tests for rank correlation coefficients. II." *Biometrika* 48, pages 29-40.

Fienberg, S. 1985. *The Analysis of Cross-Classified Categorical Data*. MIT Press. Cambridge, Massachusetts. This book provides a very good introduction to the subject. It is a must for any serious student of the subject. **Figure D.** 1071. *Pre-kit Analysis Combridge* University Press. New York, N.Y.

Finney, D. 1971. Probit Analysis. Cambridge University Press. New York, N.Y.

Fisher, N.I. 1993. Statistical Analysis of Circular Data. Cambridge University Press. New York, New York.

Fisher, R.A. 1936. "The use of multiple measurements in taxonomic problems." *Annuals of Eugenics*, Volume 7, Part II, 179-188. This article is famous because in it Fisher included the 'iris data' that is always presented when discussing discriminant analysis.

Fleiss, Joseph L. 1981. *Statistical Methods for Rates and Proportions*. John Wiley & Sons. New York. This book provides a very good introduction to the subject.

Fleiss, J. L., Levin, B., Paik, M.C. 2003. *Statistical Methods for Rates and Proportions. Third Edition.* John Wiley & Sons. New York. This book provides a very good introduction to the subject.

Fleiss, Joseph L. 1986. *The Design and Analysis of Clinical Experiments*. John Wiley & Sons. New York. This book provides a very good introduction to clinical trials. It may be a bit out of date now, but it is still very useful.

Fleming, T. R. 1982. "One-sample multiple testing procedure for Phase II clinical trials." *Biometrics*, Volume 38, pages 143-151.

Flury, B. and Riedwyl, H. 1988. *Multivariate Statistics: A Practical Approach*. Chapman and Hall. New York. This is a short, paperback text that provides lots of examples.

Flury, B. 1988. *Common Principal Components and Related Multivariate Models*. John Wiley & Sons. New York. This reference describes several advanced PCA procedures.

Freeman, M.F. and Tukey, J.W. 1950. "Transformations related to the angular and the square root". *Ann. Math. Statist.*, Volume 21, pages 607-611.

Friendly, Michael. 2002. "Corrgrams: Exploratory Displays for Correlation Matrices". *The American Statistician*, Volume 56, Number 4, pages 316-324.

Friendly, M and Kwan, E. 2003. "Effect ordering for data displays". *Computational Statistics and Data Analysis*, Volume 43, pages 509-539.

G

Gans. 1984. "The Search for Significance: Different Tests on the Same Data." *The Journal of Statistical Computation and Simulation*, 1984, pages 1-21.

Garay, A.M., Hashimoto, E.M., Ortega, E.M.M., and Lachos, V.H. 2011. "On estimation and influence diagnostics for zero-inflated negative binomial regression models." *Computational Statistics and Data Analysis*, Volume 55, pages 1304-1318.

Gart, John J. and Nam, Jun-mo. 1988. "Approximate Interval Estimation of the Ratio in Binomial Parameters: A Review and Corrections for Skewness." *Biometrics*, Volume 44, Issue 2, 323-338.

Gart, John J. and Nam, Jun-mo. 1990. "Approximate Interval Estimation of the Difference in Binomial Parameters: Correction for Skewness and Extension to Multiple Tables." *Biometrics*, Volume 46, Issue 3, 637-643. Gehlback, Stephen. 1988. *Interpreting the Medical Literature: Practical Epidemiology for Clinicians*. Second Edition. McGraw-Hill. New York. Telephone: (800)722-4726. The preface of this book states that its purpose is to provide the reader with a useful approach to interpreting the quantitative results given in medical literature. We reference it specifically because of its discussion of ROC curves.

Gentle, James E. 1998. Random Number Generation and Monte Carlo Methods. Springer. New York.
Gibbons, J. 1976. Nonparametric Methods for Quantitative Analysis. Holt, Rinehart and Winston. New York.
Gibbons, J. and Chakraborti, S. 2011. Nonparametric Statistical Inference, Fifth Edition. CRC Press. New York.
Gleason, T.C. and Staelin, R. 1975. "A proposal for handling missing data." Psychometrika, 40, 229-252.
Gloudemans, R. and Almy, R. 2011. Fundamentals of Mass Appraisal. International Association of Assessing Officers. Kansas City, Missouri.

Goldstein, Richard. 1989. "Power and Sample Size via MS/PC-DOS Computers," *The American Statistician*, Volume 43, Number 4, pages 253-260. A comparative review of power analysis software that was available at that time.

Gomez, K.A. and Gomez, A. A. 1984. *Statistical Procedures for Agricultural Research*. John Wiley & Sons. New York. This reference contains worked-out examples of many complex ANOVA designs. It includes split-plot designs. We recommend it.

Gray, R. J. 1988. "A class of k-sample tests for comparing the cumulative incidence of a competing risk." *The Annals of Statistics*, Vol. 16, No. 3, 1141-1154.

Graybill, Franklin. 1961. *An Introduction to Linear Statistical Models*. McGraw-Hill. New York, New York. This is an older book on the theory of linear models. It contains a few worked examples of power analysis.

Greenacre, M. 1984. *Theory and Applications of Correspondence Analysis*. Academic Press. Orlando, Florida. This book goes through several examples. It is probably the most complete book in English on the subject.

Greenacre, Michael J. 1993. *Correspondence Analysis in Practice*. Academic Press. San Diego, CA. This book provides a self-teaching course in correspondence analysis. It is the clearest exposition on the subject that I have ever seen. If you want to gain an understanding of CA, you must obtain this (paperback) book.

Griffiths, P. and Hill, I.D. 1985. *Applied Statistics Algorithms*, The Royal Statistical Society, London, England. See page 243 for ACM algorithm 291.

Gross and Clark 1975. *Survival Distributions*: Reliability Applications in Biomedical Sciences. John Wiley, New York.

Grubbs, Frank E 1950. "Sample criteria for testing outlying observations" *Annals of Mathematical Statistics*. Volume 21, No. 1, pages 27-58.

Gu, X.S., and Rosenbaum, P.R. 1993. "Comparison of Multivariate Matching Methods: Structures, Distances and Algorithms," *Journal of Computational and Graphical Statistics*, Vol. 2, No. 4, pages 405-420.

Guenther, William C. 1977. "Desk Calculation of Probabilities for the Distribution of the Sample Correlation Coefficient," *The American Statistician*, Volume 31, Number 1, pages 45-48.

Guenther, William C. 1977. *Sampling Inspection in Statistical Quality Control*. Griffin's Statistical Monographs, Number 37. London.

Н

Haberman, S.J. 1972. "Loglinear Fit of Contingency Tables." *Applied Statistics*. Volume 21, pages 218-225. This lists the fortran program that is used to create our LLM algorithm.

Hahn, G. J. and Meeker, W.Q. 1991. Statistical Intervals. John Wiley & Sons. New York.

Hambleton, R.K; Swaminathan, H; Rogers, H.J. 1991. *Fundamentals of Item Response Theory*. Sage Publications. Newbury Park, California. Phone: (805)499-0721. Provides an inexpensive, readable introduction to IRT. A good place to start.

Hamilton, L. 1991. *Regression with Graphics: A Second Course in Applied Statistics*. Brooks/Cole Publishing Company. Pacific Grove, California. This book gives a great introduction to the use of graphical analysis with regression. It is a must for any serious user of regression. It is written at an introductory level.

Hand, D.J. and Taylor, C.C. 1987. *Multivariate Analysis of Variance and Repeated Measures*. Chapman and Hall. London, England.

Hanley, J. A. and McNeil, B. J. 1982. "The Meaning and Use of the Area under a Receiver Operating Characteristic (ROC) Curve." *Radiology*, 143, 29-36. April, 1982.

Hanley, J. A. and McNeil, B. J. 1983. "A Method of Comparing the Areas under Receiver Operating Characteristic Curves Derived from the Same Cases." *Radiology*, 148, 839-843. September, 1983.

Harris, E.K. and Boyd, J.C. 1995. *Statistical Bases of Reference Values in Laboratory Medicine*. Marcel Dekker, Inc. New York.

Hartigan, J. 1975. *Clustering Algorithms*. John Wiley. New York. (This is the "bible" of cluster algorithms. Hartigan developed the K-means algorithm used in **NCSS**.)

Haupt, R.L. and Haupt, S.E. 1998. *Practical Genetic Algorithms*. John Wiley. New York.

Hayes, A.F. 2018. Introduction to Mediation, Moderation, and Conditional Process Analysis, Second Edition. CRC The Guilford Press. New York.

Hayes, R.J. and Moulton, L.H. 2017. Cluster Randomised Trials, Second Edition. CRC Press. New York.

Hernandez-Bermejo, B. and Sorribas, A. 2001. "Analytical Quantile Solution for the S-distribution, Random Number Generation and Statistical Data Modeling." *Biometrical Journal* 43, 1007-1025.

Hilbe, Joseph M. 2014. Negative Binomial Regression. Cambridge University Press. New York, NY.

Hillier, F.S. and Lieberman, G.J. 2015. *An Introduction to Operations Research (10th Edition)*. McGraw Hill. New York, New York.

Hintze, J. L. and Nelson, R.D. 1998. "Violin Plots: A Box Plot-Density Trace Synergism." *The American Statistician* 52, 181-184.

Hoaglin, Mosteller, and Tukey. 1983. Understanding Robust and Exploratory Data Analysis. John Wiley & Sons. New York.

Hoaglin, Mosteller, and Tukey. 1985. Exploring Data Tables, Trends, and Shapes. John Wiley. New York.

Hochberg, Y. and Tamhane, A. C. 1987. Multiple Comparison Procedures. John Wiley & Sons. New York.

Hollander, M., Wolfe, D.A, and Chicken, E. 2014. *Nonparametric Statistical Methods, Third Edition*. John Wiley & Sons. New York.

Hoerl, A.E. and Kennard, R.W. 1970. "Ridge Regression: Biased estimation for nonorthogonal problems." *Technometrics* 12, 55-82.

Hoerl, A.E. and Kennard R.W. 1976. "Ridge regression: Iterative estimation of the biasing parameter." *Communications in Statistics* A5, 77-88.

Horn, Paul S. 1988. "A Biweight Prediction Interval for Random Samples." *Journal of the American Statistical Association* 83, March, No. 401, 249-256.

Horn, P.S. and Pesce, A.J. 2005. Reference Intervals, A User's Guide. AACC Press. Washington, DC.

Howe, W.G. 1969. "Two-Sided Tolerance Limits for Normal Populations—Some Improvements." *Journal of the American Statistical Association*, 64, 610-620.

Hosmer, D. and Lemeshow, S. 1989. *Applied Logistic Regression*. John Wiley & Sons. New York. This book gives an advanced, in depth look at logistic regression.

Hosmer, D. and Lemeshow, S. 2000. *Applied Logistic Regression*, 2nd Edition. John Wiley & Sons. New York. Hosmer, D. and Lemeshow, S. 1999. *Applied Survival Analysis*. John Wiley & Sons. New York.

Hotelling, H. 1933. "Analysis of a complex of statistical variables into principal components." *Journal of Educational Psychology* 24, 417-441, 498-520.

Hsieh, F.Y. 1989. "Sample Size Tables for Logistic Regression," *Statistics in Medicine*, Volume 8, pages 795-802. This is the article that was the basis for the sample size calculations in logistic regression in PASS 6.0. It has been superceded by the 1998 article.

Hsieh, F.Y., Bloch, D.A., and Larsen, M.D. 1998. "A Simple Method of Sample Size Calculation for Linear and Logistic Regression," *Statistics in Medicine*, Volume 17, pages 1623-1634. The sample size calculation for logistic regression in PASS are based on this article.

Hsieh, F.Y. and Lavori, P.W. 2000. "Sample-Size Calculations for the Cox Proportional Hazards Regression Model with Nonbinary Covariates," *Controlled Clinical Trials*, Volume 21, pages 552-560. The sample size calculation for Cox regression in PASS are based on this article.

Hsu, Jason. 1996. *Multiple Comparisons: Theory and Methods.* Chapman & Hall. London. This book gives a beginning to intermediate discussion of multiple comparisons, stressing the interpretation of the various MC tests. It provides details of three popular MC situations: all pairs, versus the best, and versus a control. The power calculations used in the MC module of PASS came from this book.

Irizarry, R.A., et al. 2003a. Exploration, Normalization, and Summaries of High Density Oligonucleotide Array Probe Level Data. *Biostatistics*, 4, 249-264.

Irizarry, R.A., et al. 2003b. Summaries of Affymetrix GeneChip Probe Level Data. *Nucleic Acids Research*, 31, e15.

J

Jackson, J.E. 1991. *A User's Guide To Principal Components.* John Wiley & Sons. New York. This is a great book to learn about PCA from. It provides several examples and treats everything at a level that is easy to understand.

James, Mike. 1985. *Classification Algorithms*. John Wiley & Sons. New York. This is a great text on the application of discriminant analysis. It includes a simple, easy-to-understand, theoretical development as well as discussions of the application of discriminant analysis.

Jammalamadaka, S.R. and SenGupta, A. 2001. *Topics in Circular Statistics*. World Scientific. River Edge, New Jersey.

Jobson, J.D. 1992. *Applied Multivariate Data Analysis - Volume II: Categorical and Multivariate Methods*. Springer-Verlag. New York. This book is a useful reference for loglinear models and other multivariate methods. It is easy to follows and provides lots of examples.

Jolliffe, I.T. 1972. "Discarding variables in a principal component analysis, I: Artifical data." *Applied Statistics*, 21:160-173.

Johnson, N.L., Kotz, S., and Kemp, A.W. 1992. Univariate Discrete Distributions, Second Edition. John Wiley & Sons. New York.

Johnson, N.L., Kotz, S., and Balakrishnan, N. 1994. *Continuous Univariate Distributions Volume 1, Second Edition*. John Wiley & Sons. New York.

Johnson, N.L., Kotz, S., and Balakrishnan, N. 1995. *Continuous Univariate Distributions Volume 2, Second Edition*. John Wiley & Sons. New York.

Jolliffe, I.T. 1986. *Principal Component Analysis*. Springer-Verlag. New York. This book provides an easy-reading introduction to PCA. It goes through several examples.

Julious, Steven A. 2004. "Tutorial in Biostatistics. Sample sizes for clinical trials with Normal data." *Statistics in Medicine*, 23:1921-1986.

Jung, S.-H. 2005. "Sample size for FDR-control in microarray data analysis" *Bioinformatics*, 21(14):3097-3104. Juran, J.M. 1979. *Quality Control Handbook*. McGraw-Hill. New York.

Κ

Kaiser, H.F. 1960. "The application of electronic computers to factor analysis." *Educational and Psychological Measurement*. 20:141-151.

Kalbfleisch, J.D. and Prentice, R.L. 1980. *The Statistical Analysis of Failure Time Data*. John Wiley, New York. Karian, Z.A and Dudewicz, E.J. 2000. *Fitting Statistical Distributions*. CRC Press, New York.

Kaufman, L. and Rousseeuw, P.J. 1990. *Finding Groups in Data*. John Wiley. New York. This book gives an excellent introduction to cluster analysis. It treats the forming of the distance matrix and several different types of cluster methods, including fuzzy. All this is done at an elementary level so that users at all levels can gain from it.

Kay, S.M. 1988. *Modern Spectral Estimation*. Prentice-Hall: Englewood Cliffs, New Jersey. A very technical book on spectral theory.

Kendall, M. and Ord, J.K. 1990. *Time Series*. Oxford University Press. New York. This is theoretical introduction to time series analysis that is very readable.

Kendall,M. and Stuart, A. 1987. *Kendall's Advanced Theory of Statistics. Volume 1: Distribution Theory.* Oxford University Press. New York. This is a fine math-stat book for graduate students in statistics. We reference it because it includes formulas that are used in the program.

Kenward, M. G. and Roger, J. H. 1997. "Small Sample Inference for Fixed Effects from Restricted Maximum Likelihood," *Biometrics*, 53, pages 983-997.

Keppel, Geoffrey. 1991. *Design and Analysis - A Researcher's Handbook*. Prentice Hall. Englewood Cliffs, New Jersey. This is a very readable primer on the topic of analysis of variance. Recommended for those who want the straight scoop with a few, well-chosen examples.

Kim, P.J., and Jennrich, R.I. 1973. Tables of the exact sampling distribution of the two sample Kolmogorov-Smirnov criterion D_{mn} (m < n), in *Selected Tables in Mathematical Statistics*, Volume 1, (edited by H. L. Harter and D.B. Owen), American Mathematical Society, Providence, Rhode Island.

Kirk, Roger E. 1982. *Experimental Design: Procedures for the Behavioral Sciences*. Brooks/Cole. Pacific Grove, California. This is a respected reference on experimental design and analysis of variance.

Klein, J.P. and Moeschberger, M.L. 1997. Survival Analysis. Springer-Verlag. New York.

Klein, J.P. and Moeschberger, M.L. 2003. *Survival Analysis*. 2nd Edition. Springer-Verlag. New York. This book provides a comprehensive look at the subject complete with formulas, examples, and lots of useful comments. It includes all the more recent developments in this field. I recommend it.

Kleinbaum, D.G. and Klein, M. 2010. Logistic Regression, A Self-Learning Text, 3rd Edition. Springer. New York.

Kmenta, Jan. 2011. Elements of Econometrics, Second Edition. University of Michigan Press.

Koch, G.G.; Atkinson, S.S.; Stokes, M.E. 1986. *Encyclopedia of Statistical Sciences*. Volume 7. John Wiley. New York. Edited by Samuel Kotz and Norman Johnson. The article on Poisson Regression provides a very good summary of the subject.

Kotz and Johnson. 1993. *Process Capability Indices*. Chapman & Hall. New York. This book gives a detailed account of the capability indices used in SPC work. 207 pages.

Kraemer, Helena C. 2006. *Encyclopedia of Statistical Sciences*. Volume 1. John Wiley. New York. Edited by Samuel Kotz. The article is under the heading Biserial Correlation.

Kraemer, H. C. and **Thiemann, S.** 1987. *How Many Subjects*, Sage Publications, 2111 West Hillcrest Drive, Newbury Park, CA. 91320. This is an excellent introduction to power analysis.

Kruskal, J. 1964. "Multidimensional scaling by optimizing goodness of fit to a nonmetric hypothesis." *Psychometrika* 29, pages 1-27, 115-129. This article presents the algorithm on which the non-metric algorithm used in NCSS is based.

Kruskal, J. and Wish, M. 1978. *Multidimensional Scaling*. Sage Publications. Beverly Hills, CA. This is a well-written monograph by two of the early pioneers of MDS. We suggest it to all serious students of MDS.

Krzanowski, W. J. and Hand, D. 2009. *ROC Curves for Continuous Data*. Taylor and Francis Group. Boca Raton, FL. A very good all-around discussion of ROC curves.

Kuehl, R.O. 2000. *Design of Experiment: Statistical Principles of Research Design and Analysis, 2nd Edition.* Brooks/Cole. Pacific Grove, California. This is a good graduate level text on experimental design with many examples.

L

Lachenbruch, P.A. 1975. *Discriminant Analysis*. Hafner Press. New York. This is an in-depth treatment of the subject. It covers a lot of territory, but has few examples.

Lachin, John M. 2000. *Biostatistical Methods*. John Wiley & Sons. New York. This is a graduate-level methods book that deals with statistical methods that are of interest to biostatisticians such as odds ratios, relative risks, regression analysis, case-control studies, and so on.

Lachin, John M. and Foulkes, Mary A. 1986. "Evaluation of Sample Size and Power for Analyses of Survival with Allowance for Nonuniform Patient Entry, Losses to Follow-up, Noncompliance, and Stratification," *Biometrics*, Volume 42, September, pages 507-516.

Lan, K.K.G. and DeMets, D.L. 1983. "Discrete sequential boundaries for clinical trials." *Biometrika*, 70, pages 659-663.

Lan, K.K.G. and Zucker, D.M. 1993. "Sequential monitoring of clinical trials: the role of information and Brownian motion." *Statistics in Medicine*, 12, pages 753-765.

Lance, G.N. and Williams, W.T. 1967. "A general theory of classificatory sorting strategies. I. Hierarchical systems." *Comput. J.* 9, pages 373-380.

Lance, G.N. and Williams, W.T. 1967. "Mixed-data classificatory programs I. Agglomerative systems." *Aust. Comput. J.* 1, pages 15-20.

Lawless, Jerald F. 1982. Statistical Models and Methods for Lifetime Data. John Wiley, New York.

Lawless, Jerald F. 1987. "Negative binomial and mixed Poisson regression." *The Canadian Journal of Statistics*. Volume 15, No. 3, pages 209-225.

Lawson, John. 1987. *Basic Industrial Experimental Design Strategies*. Center for Statistical Research at Brigham Young University. Provo, Utah. 84602. This is a manuscript used by Dr. Lawson in courses and workshops that he provides to industrial engineers. It is the basis for many of our experimental design procedures.

Lebart, Morineau, and Warwick. 1984. *Multivariate Descriptive Statistical Analysis*. John Wiley & Sons. This book devotes a large percentage of its discussion to correspondence analysis.

Lee, E.T. 1974. "A Computer Program for Linear Logistic Regression Analysis" in *Computer Programs in Biomedicine*, Volume 4, pages 80-92.

Lee, E.T. 1980. *Statistical Methods for Survival Data Analysis*. Lifetime Learning Publications. Belmont, California.

Lee, E.T. 1992. *Statistical Methods for Survival Data Analysis*. Second Edition. John Wiley & Sons. New York. This book provides a very readable introduction to survival analysis techniques.

Lee, M.-L. T. 2004. *Analysis of Microarray Gene Expression Data*. Kluwer Academic Publishers. Norwell, Massachusetts.

Lee, S. K. 1977. "On the Asymptotic Variances of u Terms in Loglinear Models of Multidimensional Contingency Tables." *Journal of the American Statistical Association*. Volume 72 (June, 1977), page 412. This article describes methods for computing standard errors that are used in the LLM section of this program.

Lenth, Russell V. 1987. "Algorithm AS 226: Computing Noncentral Beta Probabilities," *Applied Statistics*, Volume 36, pages 241-244.

Lenth, Russell V. 1989. "Algorithm AS 243: Cumulative Distribution Function of the Non-central t Distribution," *Applied Statistics*, Volume 38, pages 185-189.

Lesaffre, E. and Albert, A. 1989. "Multiple-group Logistic Regression Diagnostics" *Applied Statistics*, Volume 38, pages 425-440. See also Pregibon 1981.

Levene, Howard. 1960. In *Contributions to Probability and Statistics: Essays in Honor of Harold Hotelling*, I. Olkin et al., eds. Stanford University Press, Stanford Calif., pp. 278-292.

Lewis, **J.A.** 1999. "Statistical principles for clinical trials (ICH E9) an introductory note on an international guideline." *Statistics in Medicine*, 18, pages 1903-1942.

Linnet, Kristian 1990. "Estimation of the Linear Relationship between the Measurements of Two Methods with Proportional Errors," *Statistics in Medicine*, 9, pages 1463-1473.

Linnet, Kristian 1993. "Evaluation of Regression Procedures for Methods Comparison Studies," *Clinical Chemistry*, Volume 39, No. 3, pages 424-432.

Lipsey, Mark W. 1990. *Design Sensitivity Statistical Power for Experimental Research*, Sage Publications, 2111 West Hillcrest Drive, Newbury Park, CA. 91320. This is an excellent introduction to power analysis.

Little, R. and Rubin, D. 1987. *Statistical Analysis with Missing Data*. John Wiley & Sons. New York. This book is completely devoted to dealing with missing values. It gives a complete treatment of using the EM algorithm to estimate the covariance matrix.

Little, R. C. et al. 2006. SAS for Mixed Models – Second Edition. SAS Institute Inc., Cary, North Carolina.

Liu, H. and Wu, T. 2005. "Sample Size Calculation and Power Analysis of Time-Averaged Difference," *Journal of Modern Applied Statistical Methods*, Vol. 4, No. 2, pages 434-445.

Lu, Y. and Bean, J.A. 1995. "On the sample size for one-sided equivalence of sensitivities based upon McNemar's test," *Statistics in Medicine*, Volume 14, pages 1831-1839.

Liu, J., Hsueh, H., Hsieh, E., and Chen, J.J. 2002. "Tests for equivalence or non-inferiority for paired binary data," *Statistics in Medicine*, Volume 21, pages 231-245.

Lloyd, D.K. and Lipow, M. 1991. *Reliability: Management, Methods, and Mathematics*. ASQC Quality Press. Milwaukee, Wisconsin.

Locke, C.S. 1984. "An exact confidence interval for untransformed data for the ratio of two formulation means," *J. Pharmacokinet. Biopharm.*, Volume 12, pages 649-655.

Lockhart, R. A. & Stephens, M. A. 1985. "Tests of fit for the von Mises distribution." *Biometrika* 72, pages 647-652.

Long, J. Scott. 1990. "The origins of sex differences in science," *Social Forces*, Volume 68, pages 1297-1315. Long, J. Scott. 1997. *Regression Models for Categorical and Limited Dependent Variables*. Sage Publications, Thousand Oaks, California.

Μ

Machin, D., Campbell, M., Fayers, P., and Pinol, A. 1997. *Sample Size Tables for Clinical Studies, 2nd Edition*. Blackwell Science. Malden, Mass. A very good & easy to read book on determining appropriate sample sizes in many situations.

MacKinnon, David P. 2008. Introduction to Statistical Mediation Analysis. Routledge, Taylor & Francis Group. New York and London.

Makridakis, S. and Wheelwright, S.C. 1978. *Iterative Forecasting*. Holden-Day.: San Francisco, California. This is a very good book for the layman since it includes several detailed examples. It is written for a person with a minimum amount of mathematical background.

Manly, B.F.J. 1986. *Multivariate Statistical Methods - A Primer*. Chapman and Hall. New York. This nice little paperback provides a simplified introduction to many multivariate techniques, including MDS.

Manuilova, E. et al. 2014. Package 'mcr'. http://cran.r-project.org/web/packages/mcr/mcr.pdf.

Mardia, K.V. and Jupp, P.E. 2000. Directional Statistics. John Wiley & Sons. New York.

Marple, S.L. 1987. *Digital Spectral Analysis with Applications*. Prentice-Hall: Englewood Cliffs, New Jersey. A technical book about spectral analysis.

Martinez and Iglewicz. 1981. "A test for departure from normality based on a biweight estimator of scale." *Biometrika*, 68, 331-333.

Marubini, E. and Valsecchi, M.G. 1996. *Analysing Survival Data from Clinical Trials and Observational Studies*. John Wiley: New York, New York.

Mather, Paul. 1976. *Computational Methods of Multivariate Analysis in Physical Geography*. John Wiley & Sons. This is a great book for getting the details on several multivariate procedures. It was written for non-statisticians. It is especially useful in its presentation of cluster analysis. Unfortunately, it is out-of-print. You will have to look for it in a university library (it is worth the hunt).

Matsumoto, M. and Nishimura, T. 1998. "Mersenne twister: A 623-dimensionally equidistributed uniform pseudorandom number generator" *ACM Trans. On Modeling and Computer Simulations*.

Mauchly, J.W. 1940. "Significance test for sphericity of a normal n-variate distribution." *Annals of Mathematical Statistics*, 11: 204-209.

McBride, Graham B. 2005. Using Statistical Methods for Water Quality Management. John Wiley: New York, New York.

McCabe, G.P. 1984. "Principal variables." Technometrics, 26, 137-144.

McClish, D.K. 1989. "Analyzing a Portion of the ROC Curve." Medical Decision Making, 9: 190-195

McHenry, Claude. 1978. "Multivariate subset selection." *Journal of the Royal Statistical Society, Series C.* Volume 27, No. 23, pages 291-296.

McNeil, D.R. 1977. Interactive Data Analysis. John Wiley & Sons. New York.

Mendenhall, W. 1968. *Introduction to Linear Models and the Design and Analysis of Experiments*. Wadsworth. Belmont, Calif.

Metz, C.E. 1978. "Basic principles of ROC analysis." *Seminars in Nuclear Medicine*, Volume 8, No. 4, pages 283-298.

Miettinen, O.S. and Nurminen, M. 1985. "Comparative analysis of two rates." *Statistics in Medicine* 4: 213-226. Milliken, G.A. and Johnson, D.E. 1984. *Analysis of Messy Data, Volume 1*. Van Nostrand Rienhold. New York, NY.

Milne, P. 1987. Computer Graphics for Surveying. E. & F. N. Spon, 29 West 35th St., NY, NY 10001

Montgomery, Douglas. 1984. *Design and Analysis of Experiments*. John Wiley & Sons, New York. A textbook covering a broad range of experimental design methods. The book is not limited to industrial investigations, but gives a much more general overview of experimental design methodology.

Montgomery, Douglas and Peck. 1992. Introduction to Linear Regression Analysis. A very good book on this topic.

Montgomery, Douglas C. 1991. *Introduction to Statistical Quality Control*. Second edition. John Wiley & Sons. New York. This is a comprehensive textbook of SPC including control charts, process capability, and experimental design. It has many examples. 700 pages.

Montgomery, Douglas C. 2013. *Introduction to Statistical Quality Control*. Seventh edition. John Wiley & Sons. New York.

Moore, D. S. and McCabe, G. P. 1999. *Introduction to the Practice of Statistics*. W. H. Freeman and Company. New York.

Mosteller, F. and Tukey, J.W. 1977. *Data Analysis and Regression*. Addison-Wesley. Menlo Park, California. This book should be read by all serious users of regression analysis. Although the terminology is a little different, this book will give you a fresh look at the whole subject.

Motulsky, Harvey. 1995. *Intuitive Biostatistics*. Oxford University Press. New York, New York. This is a wonderful book for those who want to understand the basic concepts of statistical testing. The author presents a very readable coverage of the most popular biostatistics tests. If you have forgotten how to interpret the various statistical tests, get this book!

Moura, Eduardo C. 1991. *How To Determine Sample Size And Estimate Failure Rate in Life Testing*. ASQC Quality Press. Milwaukee, Wisconsin.

Mueller, K. E., and Barton, C. N. 1989. "Approximate Power for Repeated-Measures ANOVA Lacking Sphericity." *Journal of the American Statistical Association*, Volume 84, No. 406, pages 549-555.

Mueller, K. E., LaVange, L.E., Ramey, S.L., and Ramey, C.T. 1992. "Power Calculations for General Linear Multivariate Models Including Repeated Measures Applications." *Journal of the American Statistical Association*, Volume 87, No. 420, pages 1209-1226.

Mukerjee, H., Robertson, T., and Wright, F.T. 1987. "Comparison of Several Treatments With a Control Using Multiple Contrasts." *Journal of the American Statistical Association*, Volume 82, No. 399, pages 902-910.

Muller, K. E. and Stewart, P.W. 2006. *Linear Model Theory: Univariate, Multivariate, and Mixed Models*. John Wiley & Sons Inc. Hoboken, New Jersey.

Murray, D. M. 1998. *Design and Analysis of Group-Randomized Trials*. Oxford University Press. New York. **Myers, R.H.** 1990. *Classical and Modern Regression with Applications*. PWS-Kent Publishing Company. Boston, Massachusetts. This is one of the bibles on the topic of regression analysis.

Ν

Naef, F. et al. 2002. "Empirical characterization of the expression ratio noise structure in high-density oligonucleotide arrays," *Genome Biol.*, 3, RESEARCH0018.

Nam, Jun-mo. 1987. "A Simple Approximation for Calculating Sample Sizes for Detecting Linear Trend in Proportions," *Biometrics*, Volume 43, pages 701-705.

Nam, Jun-mo. 1992. "Sample Size Determination for Case-Control Studies and the Comparison of Stratified and Unstratified Analyses," *Biometrics*, Volume 48, pages 389-395.

Nam, Jun-mo. 1997. "Establishing equivalence of two treatments and sample size requirements in matched-pairs design," *Biometrics*, Volume 53, pages 1422-1430.

Nam, J-m. and Blackwelder, W.C. 2002. "Analysis of the ratio of marginal probabilities in a matched-pair setting," *Statistics in Medicine*, Volume 21, pages 689-699.

Nash, J. C. 1987. Nonlinear Parameter Estimation. Marcel Dekker, Inc. New York, NY.

Nash, J.C. 1979. Compact Numerical Methods for Computers. John Wiley & Sons. New York, NY.

Nel, D.G. and van der Merwe, C.A. 1986. "A solution to the multivariate Behrens-Fisher problem."

Communications in Statistics—Series A, Theory and Methods, 15, pages 3719-3735.

Nelson, W.B. 1982. Applied Life Data Analysis. John Wiley, New York.

Nelson, W.B. 1990. Accelerated Testing. John Wiley, New York.

Neter, J., Kutner, M., Nachtsheim, C., and Wasserman, W. 1996. *Applied Linear Statistical Models 4th Edition*. Richard D. Irwin, Inc. Chicago, Illinois. This mammoth book covers regression analysis and analysis of variance thoroughly and in great detail. We recommend it.

Neter, J., Wasserman, W., and Kutner, M. 1983. *Applied Linear Regression Models*. Richard D. Irwin, Inc. Chicago, Illinois. This book provides you with a complete introduction to the methods of regression analysis. We suggest it to non-statisticians as a great reference tool.

Newcombe, Robert G. 1998a. "Two-Sided Confidence Intervals for the Single Proportion: Comparison of Seven Methods." *Statistics in Medicine*, Volume 17, 857-872.

Newcombe, Robert G. 1998b. "Interval Estimation for the Difference Between Independent Proportions: Comparison of Eleven Methods." *Statistics in Medicine*, Volume 17, 873-890.

Newcombe, Robert G. 1998c. "Improved Confidence Intervals for the Difference Between Binomial Proportions Based on Paired Data." *Statistics in Medicine*, Volume 17, 2635-2650.

Newton, H.J. 1988. *TIMESLAB: A Time Series Analysis Laboratory*. Wadsworth & Brooks/Cole: Pacific Grove, California. This book is loaded with theoretical information about time series analysis. It includes software designed by Dr. Newton for performing advanced time series and spectral analysis. The book requires a strong math and statistical background.

0

O'Brien, P.C. and Fleming, T.R. 1979. "A multiple testing procedure for clinical trials." *Biometrics*, 35, pages 549-556.

O'Brien, R.G. and Kaiser, M.K. 1985. "MANOVA Method for Analyzing Repeated Measures Designs: An Extensive Primer." *Psychological Bulletin*, 97, pages 316-333.

Obuchowski, N. 1998. "Sample Size Calculations in Studies of Test Accuracy." *Statistical Methods in Medical Research*, 7, pages 371-392.

Obuchowski, N. and McClish, D. 1997. "Sample Size Determination for Diagnostic Accuracy Studies Involving Binormal ROC Curve Indices." *Statistics in Medicine*, 16, pages 1529-1542.

Odeh, R.E. and Fox, M. 1991. Sample Size Choice. Marcel Dekker, Inc. New York, NY.

Olofsen, E., Dahan, A., Borsboom, G., and Drummond, G. 2014 (in press). "Improvements in the application and reporting of advanced Bland-Altman methods of comparison." *J Clin Monit Comput,* Accepted for publication: April, 2014.

O'Neill and Wetherill. 1971 "The Present State of Multiple Comparison Methods," *The Journal of the Royal Statistical Society*, Series B, vol.33, 218-250).

Orloci, L. & Kenkel, N. 1985. *Introduction to Data Analysis*. International Co-operative Publishing House. Fairland, Maryland. This book was written for ecologists. It contains samples and BASIC programs of many statistical procedures. It has one brief chapter on MDS, and it includes a non-metric MDS algorithm.

Ostle, B. 1988. *Statistics in Research. Fourth Edition*. Iowa State Press. Ames, Iowa. A comprehension book on statistical methods.

Ott, L. 1977. An Introduction to Statistical Methods and Data Analysis. Wadsworth. Belmont, Calif. Use the second edition.

Ott, L. 1984. *An Introduction to Statistical Methods and Data Analysis, Second Edition.* Wadsworth. Belmont, Calif. This is a complete methods text. Regression analysis is the focus of five or six chapters. It stresses the interpretation of the statistics rather than the calculation, hence it provides a good companion to a statistical program like ours.

Owen, Donald B. 1956. "Tables for Computing Bivariate Normal Probabilities," *Annals of Mathematical Statistics*, Volume 27, pages 1075-1090.

Owen, Donald B. 1965. "A Special Case of a Bivariate Non-Central t-Distribution," *Biometrika*, Volume 52, pages 437-446.

Ρ

Pandit, S.M. and Wu, S.M. 1983. *Time Series and System Analysis with Applications*. John Wiley and Sons. New York. This book provides an alternative to the Box-Jenkins approach for dealing with ARMA models. We used this approach in developing our automatic ARMA module.

Pan, Z. and Kupper, L. 1999. "Sample Size Determination for Multiple Comparison Studies Treating Confidence Interval Width as Random." *Statistics in Medicine* 18, 1475-1488.

Parmar, M.K.B. and Machin, D. 1995. Survival Analysis. John Wiley and Sons. New York.

Parmar, M.K.B., Torri, V., and Steart, L. 1998. "Extracting Summary Statistics to Perform Meta-Analyses of the Published Literature for Survival Endpoints." *Statistics in Medicine* 17, 2815-2834.

Passing H. and Bablok, W. 1983. "A New Biometrical Procedure for Testing the Equality of Measurements from Two Different Analytical Methods. Application of linear regression procedures for method comparison studies in clinical chemistry, Part I." *J. Clin. Chem. Clin. Biochem.* 21, 709-720.

Passing H. and Bablok, W. 1984. "Comparison of Several Regression Procedures for Method Comparison Studies and Determination of Sample Sizes. Application of linear regression procedures for method comparison studies in clinical chemistry, Part II." *J. Clin. Chem. Clin. Biochem.* 22, 431-445.

Pearson, K. 1901. "On lines and planes of closest fit to a system of points in space." *Philosophical Magazine* 2, 557-572.

Pearson, E.S. and Hartley, H.O. 1984. *Biometrika Tables for Statisticians, Volume I.* Biometrika Trust, University College London.

Pedhazur, E.L. and Schmelkin, L.P. 1991. *Measurement, Design, and Analysis: An Integrated Approach.* Lawrence Erlbaum Associates. Hillsdale, New Jersey. This mammoth book (over 800 pages) covers multivariate analysis, regression analysis, experimental design, analysis of variance, and much more. It provides annotated output from SPSS and SAS which is also useful to our users. The text is emphasizes the social sciences. It provides a "howto," rather than a theoretical, discussion. Its chapters on factor analysis are especially informative.

Pepe, M. S. and Mori, M. 1993. "Kaplan-Meier, marginal or conditional probability curves in summarizing competing risks failure time data?" *Statistics in Medicine*, Vol. 12, 737-751.

Phillips, Kem F. 1990. "Power of the Two One-Sided Tests Procedure in Bioequivalence," *Journal of Pharmacokinetics and Biopharmaceutics*, Volume 18, No. 2, pages 137-144.

Pintilie, M. 2006. *Competing Risks: A Practical Perspective*, John Wiley & Sons Ltd, Chichester, West Sussex, England.

Pocock, S.J. 1977. "Group sequential methods in the design and analysis of clinical trials." *Biometrika*, 64, pages 191-199.

Press, S. J. and Wilson, S. 1978. "Choosing Between Logistic Regression and Discriminant Analysis." *Journal of the American Statistical Association*, Volume 73, Number 364, Pages 699-705. This article details the reasons why logistic regression should be the preferred technique.

Press, William H. 1986. Numerical Recipes, Cambridge University Press, New York, New York.

Pregibon, Daryl. 1981. "Logistic Regression Diagnostics." *Annals of Statistics*, Volume 9, Pages 705-725. This article details the extensions of the usual regression diagnostics to the case of logistic regression. These results were extended to multiple-group logistic regression in Lesaffre and Albert (1989).

Price, K., Storn R., and Lampinen, J. 2005. *Differential Evolution – A Practical Approach to Global Optimization*. Springer. Berlin, Germany.

Prihoda, Tom. 1983. "Convenient Power Analysis For Complex Analysis of Variance Models." *Poster Session of the American Statistical Association Joint Statistical Meetings*, August 15-18, 1983, Toronto, Canada. Tom is currently at the University of Texas Health Science Center. This article includes FORTRAN code for performing power analysis.

R

Ramsey, Philip H. 1978 "Power Differences Between Pairwise Multiple Comparisons," *JASA*, vol. 73, no. 363, pages 479-485.

Rao, C.R., Mitra, S.K., & Matthai, A. 1966. *Formulae and Tables for Statistical Work*. Statistical Publishing Society, Indian Statistical Institute, Calcutta, India.

Ratkowsky, David A. 1989. *Handbook of Nonlinear Regression Models*. Marcel Dekker. New York. A good, but technical, discussion of various nonlinear regression models.

Rawlings John O. 1988. *Applied Regression Analysis: A Research Tool.* Wadsworth. Belmont, California. This is a readable book on regression analysis. It provides a thorough discourse on the subject.

Reboussin, D.M., DeMets, D.L., Kim, K, and Lan, K.K.G. 1992. "Programs for computing group sequential boundaries using the Lan-DeMets Method." Technical Report 60, Department of Biostatistics, University of Wisconsin-Madison.

Rencher, Alvin C. 1998. *Multivariate Statistical Inference and Applications*. John Wiley. New York, New York. This book provides a comprehensive mixture of theoretical and applied results in multivariate analysis. My evaluation may be biased since Al Rencher took me fishing when I was his student.

Robins, Greenland, and Breslow. 1986. "A General Estimator for the Variance of the Mantel-Haenszel Odds Ratio," *American Journal of Epidemiology*, vol.42, pages 719-723.

Robins, Breslow, and Greenland. 1986. "Estimators of the Mantel-Haenszel variance consisten in both sparse data and large-strata limiting models," *Biometrics*, vol. 42, pages 311-323.

Rothmann, M.D., Wiens, B.L., and Chan, I.S.F. 2012. *Design and Analysis of Non-Inferiority Trials*. CRC Press – Chapman & Hall. New York, New York.

Rosenbaum, P.R. 1989. "Optimal Matching for Observational Studies," *Journal of the American Statistical Association*, vol. 84, no. 408, pages 1024-1032.

Rosenbaum, P.R., and Rubin, D.B. 1983. "The Central Role of the Propensity Score in Observational Studies for Causal Effects," *Biometrika*, vol. 70, pages 41-55.

Rosenbaum, P.R., and Rubin, D.B. 1984. "Reducing bias in observational studies using subclassification on the propensity score," *Journal of the American Statistical Association*, vol. 79, pages 516-524.

Rosenbaum, P.R., and Rubin, D.B. 1985a. "Constructing a Control Group using Multivariate Matched Sampling Methods that Incorporate the Propensity Score," *American Statistician*, vol. 39, pages 33-38.

Rosenbaum, P.R., and Rubin, D.B. 1985b. "The Bias Due to Incomplete Matching," *Biometrics*, vol. 41, pages 106-116.

Rosner, Bernard. 2011. *Fundamentals of Biostatistics*, 7th Edition. Brooks/Cole. New York. This is a very good, although expensive, book on biostatistics.

Royston, Patrick. 1992. "Approximating the Shapiro-Wilk W-test for non-normality," *Statistics and Computing*, Volume 2, pages 117-119.

Royston, Patrick. 1995. "A Remark on Algorithm AS 181: The W-test for Normality," *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, Vol. 44, No. 4, pages 547-551.

Royston, P. and Altman, D. G. 1994. "Regression using Fractional Polynomials of Continuous Covariates: Parsimonious Parametric Modelling," *Appl. Statist.*, Volume 43, No. 3, pages 429-467.

Royston, P. and Parmar, M. 2013. "Restricted mean survival time: an alternative to the hazard ratio for the design and analysis of randomized trials with a time-to-event outcome." *BMC Medical Research Methodology* 13:152.

Royston, P. and Sauerbrei, W. 2008. *Multivariable Model-building*. John Wiley & Sons. New York. This book only devotes four pages to reference intervals. It is mainly devoted to the general topic of fitting fractional polynomials.

Royston, P. and Wright, E. M. 1998. "A method for estimating age-specific reference intervals ('normal ranges') based on fractional polynomials and exponential transformation," *J. R. Statist. Soc. A*, Volume 161, Part 1, pages 79-101.

Ryan, Thomas P. 1989. *Statistical Methods for Quality Improvement*. John Wiley & Sons. New York. This is a comprehensive treatment of SPC including control charts, process capability, and experimental design. It provides many rules-of-thumb and discusses many non-standard situations. This is a very good 'operators manual' type of book. 446 pages.

Ryan, Thomas P. 2011. *Statistical Methods for Quality Improvement*. John Wiley & Sons. New York. Third Edition.

Ryan, Thomas P. 1997. *Modern Regression Methods*. John Wiley & Sons. New York. This is a comprehensive treatment of regression analysis. The author often deals with practical issues that are left out of other texts.

S

Sahai, Hardeo & Khurshid, Anwer. 1995. *Statistics in Epidemiology*. CRC Press. Boca Raton, Florida. Schiffman, Reynolds, & Young. 1981. *Introduction to Multidimensional Scaling*. Academic Press. Orlando, Florida. This book goes through several examples.

Schilling, Edward. 1982. Acceptance Sampling in Quality Control. Marcel-Dekker. New York.

Schlesselman, Jim. 1981. *Case-Control Studies*. Oxford University Press. New York. This presents a complete overview of case-control studies. It was our primary source for the Mantel-Haenszel test.

Schmee and Hahn. November, 1979. "A Simple Method for Regression Analysis." *Technometrics*, Volume 21, Number 4, pages 417-432.

Schoenfeld, David A. 1983. "Sample-Size Formula for the Proportional-Hazards Regression Model" *Biometrics*, Volume 39, pages 499-503.

Schoenfeld, David A. and Richter, Jane R. 1982. "Nomograms for Calculating the Number of Patients Needed for a Clinical Trial with Survival as an Endpoint," *Biometrics*, March 1982, Volume 38, pages 163-170.

Schork, M. and Williams, G. 1980. "Number of Observations Required for the Comparison of Two Correlated Proportions." *Communications in Statistics-Simula. Computa.*, B9(4), 349-357.

Schuirmann, Donald. 1981. "On hypothesis testing to determine if the mean of a normal distribution is continued in a known interval," *Biometrics*, Volume 37, pages 617.

Schuirmann, Donald. 1987. "A Comparison of the Two One-Sided Tests Procedure and the Power Approach for Assessing the Equivalence of Average Bioavailability," *Journal of Pharmacokinetics and Biopharmaceutics*, Volume 15, Number 6, pages 657-680.

Seber, G.A.F. 1984. *Multivariate Observations*. John Wiley & Sons. New York. (This book is an encyclopedia of multivariate techniques. It emphasizes the mathematical details of each technique and provides a complete set of references. It will only be useful to those comfortable with reading mathematical equations based on matrices.)

Seber, G.A.F. and Wild, C.J. 1989. *Nonlinear Regression*. John Wiley & Sons. New York. This book is an encyclopedia of nonlinear regression.

Senn, Stephen. 1993. Cross-over Trials in Clinical Research. John Wiley & Sons. New York.

Senn, Stephen. 2002. *Cross-over Trials in Clinical Research*. Second Edition. John Wiley & Sons. New York. Shapiro, S.S. and Wilk, M.B. 1965. "An analysis of Variance test for normality." *Biometrika*, Volume 52, pages 591-611.

Sheskin, David J. 2011. *Handbook of Parametric and Nonparametric Statistical Procedures, Fifth Edition*. CRC Press, Boca Raton, Florida.

Shuster, Jonathan J. 1990. CRC Handbook of Sample Size Guidelines for Clinical Trials. CRC Press, Boca Raton, Florida.

Siegel, S. and Castellan, N. J. 1988. *Nonparametric Statistics for the Behavioral Sciences*. McGraw-Hill. New York.

Signorini, David. 1991. "Sample size for Poisson regression," *Biometrika*, Volume 78, 2, pages 446-450. Simon, Richard. "Optimal Two-Stage Designs for Phase II Clinical Trials," *Controlled Clinical Trials*, 1989, Volume 10, pages 1-10.

Snedecor, G. and Cochran, Wm. 1972. *Statistical Methods*. The Iowa State University Press. Ames, Iowa. **Sorribas, A., March, J., and Trujillano, J.** 2002. "A new parametric method based on S-distributions for computing receiver operating characteristic curves for continuous diagnostic tests." *Statistics in Medicine* 21, 1213-1235.

Spath, H. 1985. *Cluster Dissection and Analysis.* Halsted Press. New York. (This book contains a detailed discussion of clustering techniques for large data sets. It contains some heavy mathematical notation.)

Speed, T.P. (editor). 2003. *Statistical Analysis of Gene Expression Microarray Data*. Chapman & Hall/CRC. Boca Raton, Florida.

Standard on Ratio Studies (2013). International Association of Assessing Officers. http://docs.iaao.org/media/standards/Standard_on_Ratio_Studies.pdf.

Stekel, D. 2003. *Microarray Bioinformatics*. Cambridge University Press. Cambridge, United Kingdom. Sutton, A.J., Abrams, K.R., Jones, D.R., Sheldon, T.A., and Song, F. 2000. *Methods for Meta-Analysis in Medical Research*. John Wiley & Sons. New York.

Swets, John A. 1996. *Signal Detection Theory and ROC Analysis in Psychology and Diagnostics - Collected Papers*. Lawrence Erlbaum Associates. Mahway, New Jersey.

Т

Tabachnick, B. and Fidell, L. 1989. *Using Multivariate Statistics*. Harper Collins. 10 East 53d Street, NY, NY 10022. This is an extremely useful text on multivariate techniques. It presents computer printouts and discussion from several popular programs. It provides checklists for each procedure as well as sample written reports. <u>I strongly encourage you to obtain this book!</u>

Taha, Hamdy A. 2011. *Operations Research, An Introduction (9th Edition).* Prentice Hall. Upper Saddle River, New Jersey.

Tango, Toshiro. 1998. "Equivalence Test and Confidence Interval for the Difference in Proportions for the Paired-Sample Design." *Statistics in Medicine*, Volume 17, 891-908.

Tate, Robert F. 1954. "Correlation Between a Discrete and a Continuous Variable. Point-Biserial Correlation. *The Annals of Mathematical Statistics*, Volume 25, No. 3 (Sep., 1954), 603-607.

Tate, Robert F. 1955. "The Theory of Correlation Between a Two Continuous Variables when One is Dichotomized. *Biometrika*, Volume 42, No. 1/2 (Jun., 1955), 205-216.

Therneau, T.M. and Grambsch, P.M. 2000. *Modeling Survival Data*. Springer: New York, New York. A the time of the writing of the Cox regression procedure, this book provides a thorough, up-to-date discussion of this procedure as well as many extensions to it. Recommended, especially to those with at least a masters in statistics.

Thomopoulos, N.T. 1980. *Applied Forecasting Methods*. Prentice-Hall: Englewood Cliffs, New Jersey. This book contains a very good presentation of the classical forecasting methods discussed in chapter two.

Thompson, Simon G. 1998. *Encyclopedia of Biostatistics, Volume 4*. John Wiley & Sons. New York. Article on Meta-Analysis on pages 2570-2579.

Tiku, M. L. 1965. "Laguerre Series Forms of Non-Central X² and F Distributions," *Biometrika*, Volume 42, pages 415-427.

Torgenson, W.S. 1952. "Multidimensional scaling. I. Theory and method." *Psychometrika* 17, 401-419. This is one of the first articles on MDS. There have been many advances, but this article presents many insights into the application of the technique. It describes the algorithm on which the metric solution used in this program is based.

Tubert-Bitter, P., Manfredi,R., Lellouch, J., Begaud, B. 2000. "Sample size calculations for risk equivalence testing in pharmacoepidemiology." *Journal of Clinical Epidemiology* 53, 1268-1274.

Tukey, J.W. and McLaughlin, D.H. 1963. "Less Vulnerable confidence and significance procedures for location based on a single sample: Trimming/Winsorization." *Sankhya, Series A* 25, 331-352.

Tukey, J.W. 1977. Exploratory Data Analysis. Addison-Wesley Publishing Company. Reading, Mass.

U

Uno, H. et al. 2014." Moving Beyond the Hazard Ratio in Quantifying the Between-Group Difference in Survival Analysis", *Journal of Clinical Oncology*, Volume 32, Number 22, pages 2380-2385.

Upton, G.J.G. 1982."A Comparison of Alternative Tests for the 2 x 2 Comparative Trial", *Journal of the Royal Statistical Society*, Series A,, Volume 145, pages 86-105.

Upton, G.J.G. and Fingleton, B. 1989. *Spatial Data Analysis by Example: Categorical and Directional Data. Volume 2.* John Wiley & Sons. New York.

V

Velicer, W.F. 1976. "Determining the number of components from the matrix of partial correlations." *Psychometrika*, 41, 321-327.

Velleman, Hoaglin. 1981. ABC's of Exploratory Data Analysis. Duxbury Press, Boston, Massachusetts.

Voit, E.O. 1992. "The S-distribution. A tool for approximation and classification of univariate, unimodal probability distributions." *Biometrical J.* 34, 855-878.

Voit, E.O. 2000. "A Maximum Likelihood Estimator for Shape Parameters of S-Distributions." *Biometrical J.* 42, 471-479.

Voit, E.O. and Schwacke, L. 1998. "Scalability properties of the S-distribution." *Biometrical J.* 40, 665-684. Voit, E.O. and Yu, S. 1994. "The S-distribution. Approximation of discrete distributions." *Biometrical J.* 36, 205-219.

W

Walter, S.D., Eliasziw, M., and Donner, A. 1998. "Sample Size and Optimal Designs For Reliability Studies." *Statistics in Medicine*, 17, 101-110.

Wassmer, G., and Brannath, W. 2016. *Group Sequential and Confirmatory Adaptive Designs in Clinical Trials.* Springer. Switzerland.

Welch, B.L. 1938. "The significance of the difference between two means when the population variances are unequal." *Biometrika*, 29, 350-362.

Welch, B.L. 1947. "The Generalization of "Student's" Problem When Several Different Population Variances Are Involved," *Biometrika*, 34, 28-35.

Welch, B.L. 1949. "Further Note on Mrs. Aspin's Tables and on Certain Approximations to the Tabled Function," *Biometrika*, 36, 293-296.

Welch, B.L. 1951. "On the Comparison of Several Mean Values: An Alternative Approach," *Biometrika*, 38, 330-336.

Westfall, P. et al. 1999. *Multiple Comparisons and Multiple Tests Using the SAS System*. SAS Institute Inc. Cary, North Carolina.

Westgard, J.O. 1981. "A Multi-Rule Shewhart Chart for Quality Control in Clinical Chemistry," *Clinical Chemistry*, Volume 27, No. 3, pages 493-501. (This paper is available online at the <u>www.westgard.com</u>).

Westlake, W.J. 1981. "Bioequivalence testing-a need to rethink," Biometrics, Volume 37, pages 591-593.

Whittemore, Alice. 1981. "Sample Size for Logistic Regression with Small Response Probability," *Journal of the American Statistical Association*, Volume 76, pages 27-32.

Wickens, T.D. 1989. *Multiway Contingency Tables Analysis for the Social Sciences*. Lawrence Erlbaum Associates. Hillsdale, New Jersey. A thorough book on the subject. Discusses loglinear models in depth.

Wilson, E.B. 1927. "Probable Inference, the Law of Succession, and Statistical Inference," *Journal of the American Statistical Association*, Volume 22, pages 209-212. This article discusses the 'score' method that has become popular when dealing with proportions.

Winer, B.J. 1991. *Statistical Principles in Experimental Design (Third Edition)*. McGraw-Hill. New York, NY. A very complete analysis of variance book.

Wit, E., and McClure, J. 2004. *Statistics for Microarrays*. John Wiley & Sons Ltd, Chichester, West Sussex, England.

Wolfinger, R., Tobias, R. and Sall, J. 1994. "Computing Gaussian likelihoods and their derivatives for general linear mixed models," *SIAM Journal of Scientific Computing*, 15, no.6, pages 1294-1310.

Woolson, R.F., Bean, J.A., and Rojas, P.B. 1986. "Sample Size for Case-Control Studies Using Cochran's Statistic," *Biometrics*, Volume 42, pages 927-932.

Υ

Yuan, Y. and MacKinnon, David P. 2014. "Robust Mediation Analysis Based on Median Regression." *Psychol Methods. Volume 19, Pages* 1-20.

Yuen, K.K. and Dixon, W. J. 1973. "The approximate behavior and performance of the two-sample trimmed t," *Biometrika*, Volume 60, pages 369-374.

Yuen, K.K. 1974. "The two-sample trimmed t for unequal population variances," *Biometrika*, Volume 61, pages 165-170.

Ζ

Zar, Jerrold H. 1984. *Biostatistical Analysis (Second Edition).* Prentice-Hall. Englewood Cliffs, New Jersey. This introductory book presents a nice blend of theory, methods, and examples for a long list of topics of interest in biostatistical work.

Zar, Jerrold H. 2010. *Biostatistical Analysis (Fifth Edition)*. Prentice-Hall. Upper Saddle River, New Jersey. Zhou, X., Obuchowski, N., McClish, D. 2002. *Statistical Methods in Diagnostic Medicine*. John Wiley & Sons, Inc. New York, New York. This is a great book on the designing and analyzing diagnostic tests. It is especially useful for its presentation of ROC curves.

Zou, GY. 2013. "Confidence interval estimation for the Bland-Altman limits of agreement with multiple observations per individual," *Statistical Methods in Medical Research*, Volume 22, Number 6, pages 630-642.

Zu, J. and Yuan, K.H. 2010. "Local Influence and Robust Procedures for Mediation Analysis." *Multivariate Behavioral Research. Volume 45, Pages* 1-44.

Zweig, M.H. and Campbell, G. 1993. "Receiver-operating characteristic (ROC) plots: A fundamental evaluation tool in clinical medicine," *Clinical Chemistry*, Volume 39, pages 561-577.