Bibliography

Abraham, B., and Ledolter, J. 1983. *Statistical methods of forecasting*. New York: John Wiley & Sons, Inc.

Abramowitz, N., and Stegun, I., eds. 1965. *Handbook of mathematical functions*. National Bureau of Standards, Applied Mathematics Series 55. Washington, D.C.: U.S. Government Printing Office.

Abramowitz, M., and Stegun, I. A. eds. 1970. *Handbook of mathematical functions*. New York: Dover Publications.

Addelman, S. 1962. Symmetrical and asymmetrical fractional factorial plans. *Technometrics*, 4: 47–58.

Agresti, A. 1990. *Categorical data analysis*. New York: John Wiley & Sons, Inc.

Ahrens, J. H., and Dieter, U. 1974. Computer methods for sampling from gamma, beta, Poisson and binomial distributions. *Computing*, 12: 223–246.

Anderberg, M. R. 1973. *Cluster analysis for applications*. New York: Academic Press.

Anderson, T. W. 1958. *Introduction to multivariate statistical analysis*. New York: John Wiley & Sons, Inc.

Andrews, F., Morgan, J., Sonquist, J., and Klem, L. 1973. *Multiple classification analysis*. Ann Arbor, Mich.: University of Michigan at Ann Arbor.

ASTM Special Technical Publication (STP) 15D 1990. *Manual on presentation of data and control chart analysis.* 6th ed. Prepared by Committee E-11 on Quality and Statistics, American Society for Testing and Materials. Philadelphia, Penn.

Atkinson, A. C., and Whittaker, J. 1979. Algorithm AS 134: The generation of beta random variables with one parameter greater than and one parameter less than 1. *Applied Statistics*, 28: 90–93.

Barlow, R. E., Bartholomew, D. J., Bremner, J. M., and Brunk, H. D. 1972. *Statistical inference under order restrictions*. New York: John Wiley & Sons, Inc.

Bartlett, M. S. 1946. On the theoretical specification of sampling properties of autocorrelated time series. *Journal of Royal Statistical Society*, *Series B*, 8: 27.

Beasley, J. D., and Springer, S. G. 1977. Algorithm AS 111: The percentage points of the normal distribution. *Applied Statistics*, 26: 118–121.

Belsley, D. A., Kuh, E., and Welsch R. E. 1980. *Regression diagnostics*. New York: John Wiley & Sons, Inc.

Benzécri, J. P. 1969. Statistical analysis as a tool to make patterns emerge from data. In: *Methodologies of Pattern Recognition*, S. Watanabe, ed. New York: Academic Press.

Berger, R. L. 1991. AS R86: A remark on algorithm AS 152. *Applied Statistics*, 40: 374–375.

Best, D. J., and Roberts, D. E. 1975. Algorithm AS 91: The percentage points of the c2 distribution. *Applied Statistics*, 24: 385–388.

Bhattacharjee, G. P. 1970. Algorithm AS 32: The incomplete gamma integral. *Applied Statistics*, 19: 285–287.

Bishop, Y. M. M., Fienberg, S. E., and Holland, P. W. 1975. *Discrete multivariate analysis*: *Theory and practice*. Cambridge, Mass.: MIT Press.

Björk, A., and Golub, G. H. 1973. Numerical methods for computing angles between linear subspaces. *Mathematics of Computation*, 27: 579–594.

Blalock, H. M. 1972. *Social statistics*. New York: McGraw-Hill.

Bliss, C. I. 1967. *Statistics in biology*, Volume 1. New York: McGraw-Hill.

Blom, G. 1958. *Statistical estimates and transformed beta variables*. New York: John Wiley & Sons, Inc.

Bloomfield, P. 1976. *Fourier analysis of time series*, New York: John Wiley & Sons, Inc.

Bloxom, B. 1978. Constrained multidimensional scaling in n spaces. *Psychometrika*, 43: 397–408.

Bock, R. D. 1975. *Multivariate statistical methods in behavioral research*. New York: McGraw-Hill.

Bosten, N. E., and Battiste, E. L. 1980. Remark on Algorithm 179. *Collected Algorithms from ACM*, 179–P 2–R1.

Bowdler, H. J., Martin, R. S., Reinsch, C., and Wilkinson, J. H. 1968. The QR and QL algorithm for symmetric matrices. *Numerische Mathematik*, 11: 293–306.

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

Box, G. E. P., and Jenkins, G. M. 1976. *Time series analysis*: *Forecasting and control*. San Francisco: Holden-Day.

Box, G. E. P., and Muller, M. E. 1958. A note on the generation of random normal deviates. *Annals of Mathematical Statistics*, 29: 610–611.

Bratley, P., Fox, B. L., and Schrage, L. E. 1987. *A guide to simulation*. New York: Springer-Verlag.

Brent, R. 1974. Algorithm 488. *Communications of the ACM*, **17**(12).

Brent, R. P. 1974. Algorithm 488: A Gaussian pseudo–random number generator. *Communications of the ACM,* 17: 704–706.

Breslow, N. E. 1974. Covariance analysis of censored survival data. *Biometrics*, 30: 89–99.

Brigham, E. O. 1974. *The fast fourier transform*. Englewood Cliffs, N.J.: Prentice-Hall.

Brockwell, P. J., and Davis, R. A. 1991. *Time series: Theory and methods*, 2nd ed. New York: Springer-Verlag.

Brown, M. B. 1975. The asymptotic standard errors of some estimates of uncertainty in the two-way contingency table. *Psychometrika*, **40**(3): 291.

Brown, M. B., and Benedetti, J. K. 1977. Sampling behavior of tests for correlation in two-way contingency tables. *Journal of the American Statistical Association*, 72: 309–315.

Brownlee, K. A. 1965. *Statistical theory and methodology in science and engineering*. New York: John Wiley & Sons, Inc.

Cain, K. C., and Lange, N. T. 1984. Approximate case influence for the proportional hazards regression model with censored data. *Biometrics*, 40: 493–499.

Carroll, J. D., and Chang, J. J. 1970. Analysis of individual differences in multidimensional scaling via an *N*-way generalization of "Eckart-Young" decomposition. *Psychometrika*, 35: 238–319.

Carroll, J. D., and Chang, J. J. 1972. IDIOSCAL (Individual differences in orientation scaling). Paper presented at the spring meeting of the Psychometric Society, Princeton, New Jersey.

Carroll, J. D., Pruzansky, S., and Kruskal, J. B. 1980. CANDELINC: A general approach to multidimensional analysis with linear constraints on parameters. *Psychometrika*, 45: 3–24.

Chambers, J. M., Cleveland, W. S., Kleiner, B., and Tukey, P. A. 1983. *Graphical methods for data analysis*. Belmont, Calif.: Wadsworth International Group; Boston: Duxbury Press.

Cheng, R. C. H. 1978. Generating beta variates with nonintegral shape parameters. *Communications of the ACM*, 21: 317–322.

Christensen, R. 1990. *Log-linear models*. New York: Springer-Verlag.

Clarke, M. R. B. 1982. Algorithm AS 178: The Gauss-Jordan sweep operator with detection of collinearity. *Applied Statistics*, Vol. 31, No. 2: 166–168.

Cliff, N. 1966. Orthogonal rotation to congruence. *Psychometrika*, 31: 33–42.

Cook, R. D. 1977. Detection of influential observations in linear regression, *Technometrics*, 19: 15–18.

Cooley, W. W., and Lohnes, P. R. 1971. *Multivariate data analysis*. New York: John Wiley & Sons, Inc.

Cooper, B. E. 1968a. Algorithm AS 3: The integral of Student's *t* distribution. *Applied Statistics*, 17: 189–190.

Cooper, B. E. 1968b. Algorithm AS 5: The integral of the noncentral *t* distribution. *Applied Statistics*, 17: 193–194.

Cox, D. R. 1972. Regression models and life tables (with discussion). *Journal of the Royal Statistical Society, Series B*, 34: 187–220.

Cox, D. R., and Snell, E. J. 1989. *The analysis of binary data*, 2nd ed. London: Chapman and Hall.

Cran, G. W., Martin, K. J., and Thomas, G. E. 1977. Algorithm AS 109: A remark on algorithms: AS 63 and AS 64 (replacing AS 64). *Applied Statistics*, 26: 111–114.

Cronbach, L. J. 1951. Coefficient alpha and internal structure of tests. *Psychometrika*, 16: 297–334.

Cryer, J. D. 1986. *Time series analysis*. Boston: Duxbury Press.

Dallal, G. E., and Wilkinson, L. 1986. An analytic approximation to the distribution of Lilliefor's test statistic for normality. *The American Statistician*, **40**(4): 294–296 (Correction: **41**: 248).

De Leeuw, J. 1973. *Canonical analysis of categorical data*. Doctoral dissertation, University of Leiden, reissued by DSWO Press (Leiden, 1984).

De Leeuw, J., and Van Rijckevorsel, J. 1980. HOMALS and PRINCALS—Some generalizations of principal components analysis. In: *Data Analysis and Informatics*, E. Diday et al, eds. Amsterdam: North-Holland.

De Leeuw, J., Young, F. W., and Takane, Y. 1976. Additive structure in qualitative data: an alternating least squares method with optimal scaling features. *Psychometrika*, 31: 33–42.

Dempster, A. P. 1969. *Elements of Continuous Multivariate Analysis*. Reading, Mass.: Addison-Wesley.

Dempster, A. P., Laird, N. M., and Rubin, D. B. 1977. Maximum likelihood from incomplete data via the *EM* algorithm. *Journal of the Royal Statistical Society, B,*. 39: 1–38.

Dineen, L. C., and Blakesley, B. C. 1973. Algorithm AS 62: Generator for the sampling distribution of the Mann-Whitney *U* statistic. *Applied Statistics*, 22: 269–273.

Ding, C. G. 1992. Algorithm AS 275: Computing the noncentral chi-squared distribution function. *Applied Statistics*, 41: 478–482.

Dixon, W. J., ed. 1973. *BMD Biomedical computer programs*. Los Angeles: University of California Press.

Dixon, W. J., ed. 1983. *BMDP statistical software*. Berkeley: University of California Press.

Dorrer, E. 1968. Algorithm 332: F-distribution. *Communications of the ACM*, 11: 115–116.

Draper, N. R., and Smith, H. 1969. *Applied regression analysis*. New York: John Wiley & Sons, Inc.

Duncan, D. B. 1955. Multiple range and multiple *F* tests. *Biometrics*, 11: 1–42.

Dziuban, C. D., and Shirkey, E. C. 1974. When is a correlation matrix appropriate for factor analysis? *Psychological Bulletin*, 81: 358–361.

Eckart, C., and Young, G. 1936. The approximation of one matrix by another one of lower rank. *Psychometrika*, 1: 211–218.

Edwards, A. L. 1954. *Techniques of attitude and scale construction*. New York: Appleton.

Eisenhart, C. 1947. Significance of the largest of a set of sample estimates of variance. In: *Techniques of Statistical Analysis*, C. Eisenhart, M. W. Hastay, and N. A. Wallis, eds. New York: McGraw-Hill.

Emerson, P. L. 1968. Numerical construction of orthogonal polynomials from a general recurrence formula, *Biometrics*, 24: 695–701.

Faddeeva, V. N. 1959. *Computational methods of linear algebra*. New York: Dover.

Farebrother, R. W. 1987. Algorithm AS 231: The distribution of a noncentral c2 variable with nonnegative degrees of freedom (Correction: 38: 204). *Applied Statistics*, 36: 402–405.

Fienberg, S. E. 1977. *The analysis of cross-classified categorical data*. Cambridge, Mass.: The MIT Press.

Finn, J. D. 1977. Multivariate analysis of variance and covariance, In: *Statistical Methods for Digital Computers*, Volume 3, K. Enslein, A. Ralston, and H. Wilf, eds. New York: John Wiley & Sons, Inc.

Finney, D. J. 1971. *Probit analysis*. Cambridge: Cambridge University Press.

Fishman, G. S. 1976. Sampling from the gamma distribution on a computer. *Communications of the ACM*, 19: 407–409.

Frick, H. 1990. Algorithm AS R84: A remark on algorithm AS 226. *Applied Statistics*, 39: 311–312.

Frigge, M., Hoaglin, D. C., and Iglewicz, B. 1987. Some implementations for the boxplot. In: *Computer Science and Statistics Proceedings of the* 19*th Symposium on the Interface*, R. M. Heiberger and M. Martin, eds. Alexandria, Va.: American Statistical Association.

Fuller, W. A. 1976. *Introduction to statistical time series*. New York: John Wiley & Sons, Inc.

Gardner, E. S. 1985. Exponential smoothing: the state of the art. *Journal of Forecasting*, 4: 1–28.

Gebhardt, F. 1966. Approximation to the critical values for Duncan's multiple range test. *Biometrics*, 22: 179–182.

Gehan, E. A. 1975. Statistical methods for survival time studies. In: *Cancer Therapy*: *Prognostic Factors and Criteria*. M. J. Staquet, ed. New York: Raven Press, 7–35.

Giesbrecht, F. G. 1983. An efficient procedure for computing MINQUE of variance components and generalized least squares estimates of fixed effects. *Communications in Statistics, Series A: Theory and Method*, 12: 2169–2177.

Gifi, A. 1981. *Nonlinear multivariate analysis*. Leiden: Department of Data Theory.

Gifi, A. 1985. *PRINCALS*. Leiden: Department of Data Theory, Internal Report UG-85–02.

Gill, P. E., Murray, W. M., and Wright, M. H. 1981. *Practical Optimization*. London: Academic Press.

Gill, P. E., Murray, W. M., Saunders, M. A., and Wright, M. H. 1984. Procedures for optimization problems with a mixture of bounds and general linear constraints. *ACM Transactions on Mathematical Software*, **10**(3): 282–296.

Gill, P. E., Murray, W. M., Saunders, M. A., and Wright, M. H. 1986. *User's guide for NPSOL* (*version* 4.0): *A fortran package for nonlinear programming*. Technical Report SOL 86–2, Department of Operations Research, Stanford University.

Goldstein, R. B. 1973. Algorithm 451: Chi-square quantiles. *Communications of the ACM*, 16: 483–485.

Golub, G. H. 1969. Matrix decompositions and statistical calculations. In: *Statistical Computation*, R. C. Milton and J. A. Nelder, eds. New York: Academic Press.

Golub, G. H., and Reinsch, C. 1971. Linear algebra, Chapter I.10. In: *Handbook for Automatic Computation*, Volume II, J. H. Wilkinson and C. Reinsch, eds. New York: Springer-Verlag.

Goodenough, W. H. 1944. A technique for scale analysis. *Educational and Psychological Measurement*, 4: 179–190.

Goodman, L. A., and Kruskal, W. H. 1954. Measures of association for cross-classification. *Journal of the American Statistical Association*, 49: 732–764.

Goodman, L. A., and Kruskal, W. H. 1972. Measures of association for cross-classification, IV: simplification and asymptotic variances, *Journal of the American Statistical Association*, 67: 415–421.

Goodnight, J. H. 1978. *Computing MIVQUE0 Estimates of Variance Components*. SAS Technical Report R-105, Cary, N.C.: SAS Institute.

Goodnight, J. H. 1979. A tutorial on the SWEEP operator. *The American Statistician*, Vol. 33, No. 3: 149–158.

Goodnight, J. H., and Hemmerle, W. J. 1979. A simplified algorithm for the *W* transformation in variance component estimation. *Technometrics*, 21: 265–267.

Grant, E. L., and Leavenworth, R. S. 1980. *Statistical quality control:* 5th ed. New York: McGraw-Hill.

Green, P. 1977. *Analyzing multivariate data*. New York: John Wiley & Sons, Inc.

Greenacre, M. J. 1984. *Theory and applications of correspondence analysis*. London: Academic Press.

Greenhouse, S. W., and Geisser, S. 1959. On methods in the analysis of profile data. *Psychometrika*, 24(2): 95–111.

Guilford, J. R. 1954. *Psychometric methods*. New York: McGraw-Hill.

Guttman, L. 1941. The quantification of a class of attributes: A theory and method of scale construction. In: *The Prediction of Personal Adjustment*, P. Horst et al, eds. New York: Social Science Research Council.

Guttman, L. 1945. A basis for analysing test-retest reliability. *Psychometrika*, **10**(4): 255–282.

Haberman, S. J. 1973. The analysis of residuals in cross-classified tables. *Biometrics*, 29: 205–220.

Haberman, S. J. 1977. Maximum likelihood estimates in exponential response models. *Annals of Statistics*, 5: 815–841.

Haberman, S. J. 1978. *Analysis of qualitative data*, Volume 1. New York: Academic Press.

Haberman, S. J. 1979. *Analysis of qualitative data*, Volume 2. New York: Academic Press.

Haberman, S. J. 1982. Analysis of dispersion of multinomial responses. *Journal of the American Statistical Association*, 77: 568–580.

Harman, H. H. 1976. *Modern factor analysis*, 3rd ed., Chicago: University of Chicago Press.

Harshman, R. A. 1970. Foundations of the PARAFAC procedure: Models and conditions for an explanatory multi-model factor analysis. Working Papers in Phonetics No. 16. Los Angeles: University of California.

Harter, H. L. 1969. *Order statistics and their use in testing and estimation*, Volumes 1 and 2. Aerospace Research Laboratories, United States Air Force. Washington, D.C.: U.S. Government Printing Office.

Hartigan, J. A. 1975. *Clustering algorithms*. New York: John Wiley & Sons, Inc.

Hays, W. L. 1973. *Statistics for the social sciences*. New York: Holt, Rinehart and Winston.

Heiser, W. J. 1981. *Unfolding analysis of proximal data*. Doctoral dissertation. Department of Data Theory, University of Leiden.

Hendrickson, A. E., and White, P. O. 1964. Promax: A quick method for rotation to oblique simple structure. *British Journal of Statistical Psychology* 17: 65–70.

Hill, G. W. 1970a. Algorithm 395: Student's *t*-distribution. *Communications of the ACM*, 13: 617–619.

Hill, G. W. 1970b. Algorithm 396: Student's *t*-quantiles. *Communications of the ACM*, 13: 619–620.

Hill, I. D. 1973. Algorithm AS 66: The normal integral. *Applied Statistics*, 22: 424.

Hill, I. D., and Pike, A. C. 1967. Algorithm 299: Chi-squared integral. *Communications of the ACM*, 10: 243–244.

Hoaglin, D. C., and Welsch, R. E. 1978. The hat matrix in regression and ANOVA. *The American Statistician*, 32: 17–22.

Hoaglin, D. C., Mosteller, F., and Tukey, J. W. 1983. *Understanding robust and exploratory data analysis*. New York: John Wiley & Sons, Inc.

Hoaglin, D. C., Mosteller, F., and Tukey, J. W. 1985. *Exploring data tables*, *trends, and shapes*. New York: John Wiley & Sons, Inc.

Horst, P. 1963. *Matrix algebra for social scientists*. New York: Holt, Rinehart, and Winston.

Hosmer, D. W., and Lemeshow, S. 1989. *Applied logistic regression*. New York: John Wileys & Sons, Inc.

Huynh, H., and Feldt, L. S. 1970. Conditions under which mean square ratios in repeated measurements designs have exact *F*-distributions. *Journal of the American Statistical Association*, 65: 1582–1589.

Huynh, H., and Feldt, L. S. 1976. Estimation of the Box correction for degrees of freedom from sample data in the randomized block and split plot designs. *Journal of Educational Statistics*, 1: 69–82.

Israëls, A. 1987. *Eigenvalue techniques for qualitative data*. Leiden: DSWO Press.

Jennrich, R. I., and Sampson, P. F. 1966. Rotation for simple loading. *Psychometrika*, **31**(3): 313–323.

Jennrich, R. I., and Sampson, P. F. 1976. Newton-Raphson and related algorithms for maximum likelihood variance component estimation. *Technometrics*, 18: 11–17.

Jöhnk, M. D. 1964. Erzeugung von Betaverteilten und Gammaverteilten Zufallszahlen. *Metrika*, 8: 5–15.

Jones, L. E., and Young, F. W. 1972. Structure of a social environment: longitudinal individual differences scaling of an intact group. *Journal of Personality and Social Psychology*, 24: 108–121.

Joreskog, K .G. 1977. Factor analysis by least-square and maximum likelihood methods. In: *Statistical Methods for Digital Computers*, volume 3, K. Enslein, A. Ralston, and R. S. Wilf, eds. New York: John Wiley & Sons, Inc.

Kaiser, H. F. 1963. Image analysis. In: *Problems in Measuring Change*, C. W. Harris, ed. Madison, Wisc.: University of Wisconsin Press.

Kalbfleisch, J. D., and Prentice, R. L. 1980. *The statistical analysis of failure time data.* New York: John Wiley & Sons, Inc.

Kendall, M. G. 1955. *Rank correlation methods*. London: Charles Griffin.

Kendall, M. G., and Stuart, A. 1961. *The advanced theory of statistics*, Volume 2. London: Charles Griffin.

Kennedy, W. J., and Gentle, J. E. 1980. *Statistical computing*. New York: Marcel Dekker.

Kim, Jae-On 1971. Predictive measures of ordinal association. *American Journal of Sociology*, 76(5): 891.

Kinderman, A. J., and Ramage, J. G. 1976. Computer generation of normal random variables. *Journal of the American Statistical Association*, 71: 893–896. (Correction: 85: 212).

Knuth, D. E. 1973. *The Art of Computer Programming*, volume 3: Sorting and Searching. Reading, Mass.: Addison-Wesley.

Kohn, R., and Ansley, C. F. 1985. Efficient estimation and prediction in time series regression models, *Biometrica*, 72, 3: 694–697.

Kohn, R., and Ansley, C. F. 1986. Estimation, prediction, and interpolation for ARIMA models with missing data, *JASA*, Vol. 81, No. 395: Theory and Methods, pp. 751–761.

Kotz, S., and Johnson, N. L., eds. 1988. *Encyclopedia of statistical sciences*. John Wiley & Sons, Inc.: New York.

Kramer, C. Y. 1956. Extension of multiple range tests to group means with unequal numbers of replications. *Biometrics*, 12: 307–310.

Kristof, W. 1963. The statistical theory of stepped-up reliability coefficients when the test has been divided into several equivalent parts. *Psychometrika*, 28: 221–238.

Kristof, W. 1969. Estimation of true score and error variance under various equivalent assumptions. *Psychometrika*, 34: 489–507.

Kruskal, J. B. 1964. Nonmetric multidimensional scaling: a numerical method. *Psychometrika*, 29: 115–129.

Lau, C. L. 1980. Algorithm AS 147: A simple series for the incomplete gamma integral. *Applied Statistics*, 29: 113–114.

Lawless, J. F. 1982. *Statistical models and methods for lifetime data*. New York: John Wiley & Sons, Inc.

Ledolter, J., and Abraham, B. 1984. Some comments on the initialization of exponential smoothing. *Journal of Forecasting*, 3: 79–84.

Lee, E., and Desu, M. 1972. A computer program for comparing *k* samples with right censored data. *Computer Programs in Biomedicine*, 2: 315–321.

Lehmann, E. L. 1975. *Nonparametrics*: *Statistical Methods Based on Ranks*. San Francisco: Holden-Day.

Lehmann, E. L. 1985. *Nonparametrics*: *Statistical Methods Based on Ranks*. San Francisco: McGraw Hill.

Lenth, R. V. 1987. Algorithm AS 226: Computing noncentral beta probabilities (Correction: 39: 311–312). *Applied Statistics*, 36: 241–244.

Lenth, R. V. 1989. Algorithm AS 243: Cumulative distribution function of the noncentral *t* distribution. *Applied Statistics*, 38: 185–189.

Lewis, P. A. W., Goodman, O. S., and Miller, J. W. 1969. A pseudo-random number generator for the System 360. *IBM Systems Journal*, **8**(2): 136–145.

Lilliefors, H. W. 1967. On the Kolmogorov-Smirnov tests for normality with mean and variance unknown. *Journal of the American Statistical Association*, 62: 399–402.

Ling, R. E. 1978. A study of the accuracy of some approximations for *t*, χ^2 and *F* tail probabilities. *Journal of the American Statistical Association*, 73: 274–283.

Little, R. J. A. 1988. A test of missing completely at random for multivariate data with missing values. *Journal of the American Statistical Association,* 83: 1198–1988.

Little, R. J. A. and Rubin, D. B. 1987. *Statistical analysis with missing data.* New York: John Wiley & Sons, Inc.

Loether, H. J., and McTavish, D. G. 1975. *Descriptive and inferential statistics.* Boston: Allyn and Bacon.

Louise, T. A. 1982. Finding the observed information matrix when using the *EM* algorithm. *Journal of the Royal Statistical Society, B,* 44(2): 226–233.

Ludwig, O. G. 1963. Algorithm 179: Incomplete beta ratio. *Communications of the ACM*, 6: 314.

Lund, R. E. 1980. Algorithm AS 152: Cumulative hypergeometric probabilities. *Applied Statistics*, 29: 221–223.

MacCallum, R. C. 1977. Effects of conditionality on INDSCAL and ALSCAL weights. *Psychometrika*, 42: 297–305.

Macleod, A. J. 1989. Algorithm AS 245: A robust and reliable algorithm for the logarithm of the gamma function. *Applied Statistics*, 38: 397–402.

Majumder, K. L., and Bhattacharjee, G. P. 1973a. Algorithm AS 63: The incomplete beta integral. *Applied Statistics*, 22: 409–411.

Majumder, K. L., and Bhattacharjee, G. P. 1973b. Algorithm AS 64: Inverse of the incomplete beta function ratio. *Applied Statistics*, 22: 412–414.

Makridakis, S., Wheelwright, S. C., and McGee, V. E. 1983. *Forecasting*: *Methods and Applications*, 2nd ed. New York: John Wiley & Sons, Inc.

Mardia, K. V. 1972. *Statistics of Directional Data*. New York: Academic Press.

Mardia, K. V., Kent, J. T., and Bibby, J. M. 1979. *Multivariate Analysis*. New York: Academic Press.

Marsaglia, G. 1962. Random variables and computers. *Information theory statistical decision functions random processes*: *Transactions of the third Prague conference*, J. Kozesnik, ed. Czechoslovak Academy of Science, Prague, Czechoslovak. 499–510.

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

McCullagh, P., and Nelder, J. A. 1989. Generalized linear models. 2nd ed. London: Chapman and Hall.

Melard, G. 1984, A fast algorithm for the exact likelihood of autoregressive-moving average models. *Applied Statistics*, 33: 104–114.

Meulman, J. 1982. *Homogeneity analysis of incomplete data*. Leiden: DSWO Press.

Miller, R. G., Jr. 1966. *Simultaneous statistical inference*. New York: McGraw-Hill.

MINPACK. Argonne National Laboratories Report ANL-80–74.

Monro, D. M. 1975. Algorithm AS 83: Complex discrete fast Fourier transform. *Applied Statistics*, 24: 153–160.

Monro, D. M., and Branch, J. L. 1977. Algorithm AS 117: The chirp discrete Fourier transform of general length. *Applied Statistics*, 26: 351–361.

Moré, J. J. 1977. The Levenberg-Marquardt algorithm: implementation and theory in numerical analysis. In: *Lecture Notes in Mathematics* 630, G. A. Watson, ed. Berlin: Springer-Verlag. 105–116.

Morf, M., Sidhu, G. S., and Kailath, T. 1974. Some new algorithms for recursive estimation in constant, linear, discrete-time systems, *IEEE Transactions on Automatic Control*, Vol. AC-19, No. 4: 315–323.

Morrison, D. F. 1976. *Multivariate statistical methods*. New York: McGraw-Hill.

Mudholkar, G. S., Chaubrey, Y. P., and Lin, C. 1976a. Approximations for the doubly noncentral F-distribution. *Communications in Statistics, Part A*, 5: 49–53.

Mudholkar, G. S., Chaubrey, Y. P., and Lin, C. 1976b. Some Approximations for the noncentral F-distribution. *Technometrics*, 18:351–358.

Muller, K. E., and Peterson, B. L. 1984. Practical methods for computing power in testing the multivariate general linear hypothesis. *Computational Statistics and Data Analysis*, 2: 143–158.

Nagelkerke, N. J. D. 1991. A note on a general definition of the coefficient of determination. *Biometrika*, 78: 691–692.

Narula, S. C., and Desu, M. M. 1981. Computation of probability and noncentrality parameter of a noncentral chi-square distribution. *Applied Statistics*, 30: 349–352.

Nishisato, S. 1980. *Analysis of categorical data*: *dual scaling and its applications*. Toronto: University of Toronto Press.

Novick, M. R., and Lewis, C. 1967. Coefficient alpha and the reliability of composite measurements. *Psychometrika*, 32: 1–13.

Null, C. H., and Sarle, W. S. 1982. Multidimensional scaling by least squares. *Proceedings of the 7th Annual SAS User's Group International*.

Orchard, T. and Woodbury, M. A. 1972. Missing information principal: Theory and applications. *Proceedings of the Sixth Berkeley Symposium on Mathematical Statistics and Probability,* Vol. 1. Berkeley: University of California Press, 697–715.

Overall, J. E., and Klett, C. F. 1972. *Applied multivariate analysis*. New York: McGraw-Hill.

Patel, J. K., and Read, C. B. 1982. *Handbook of the normal distribution.* New York: Marcel Dekker.

Pearlman, J. G. 1980, An algorithm for the exact likelihood of a high-order autoregressive-moving average process, *Biometrika*, 67, 1: 232–233.

Peizer, D. B., and Pratt, J. W. 1968. A normal approximation for binomial, F, beta and other common related tail probabilities. *Journal of the American Statistical Association*, 63: 1416–1456.

Pierce, D. A., and Schafer, D. W. 1986. Residuals in generalized linear models. *Journal of the American Statistical Association*, 81: 977–986.

Pike, M. C., and Hill, I. D. 1966. Algorithm 291: Logarithm of gamma function. *Communications of the ACM*, 9: 684.

Pillai, K. C. S. 1967. Upper percentage points of the largest root of a matrix in multivariate analysis. *Biometrika*, 54: 189–194.

Plackett, R. L., and Burman, J. P. 1946. The design of optimum multifactorial experiments. *Biometrika*, 33: 305–325.

Quenouville, M. H. 1949. Approximate tests of correlation in time series. *Journal of the Royal Statistical Society, Series B*, 11: 68.

Rao, C. R. 1951. An asymptotic expansion of the distribution of Wilks' criterion. *Bulletin of the International Statistical Institute*, 33, Part 2: 177–180.

Rao, C. R. 1952. *Advanced statistical methods in biometric research.* New York: John Wiley & Sons, Inc.

Rao, C. R. 1955. Estimation and test of significance in factor analysis. *Psychometrika*, **20**(2): 93–111.

Rao, C. R. 1973. *Linear statistical inference and its applications*, 2nd ed. New York: John Wiley & Sons, Inc.

Rao, C. R. 1980. Matrix approximations and reduction of dimensionality in multivariate statistical analysis. In: *Multivariate Analysis*, Vol. 5, P. R. Krishnaiah, ed. Amsterdam: North-Holland.

Ridout, M. S., and Cobby, J. M. 1989. A remark on algorithm AS 178. *Applied Statistics*, 38: 420–422.

Robson, D. S. 1959. A simple method for construction of orthogonal polynomials when the independent variable is unequally spaced. *Biometrics*, 15: 187–191.

Romesburg, H. C. 1984. *Cluster analysis for researchers.* Belmont, Calif.: Lifetime Learning Publications.

Rubin, D. B. 1987. *Multiple imputation for nonresponse data in surveys.* New York: John Wiley & Sons, Inc.

Rummel, R. J. 1970. *Applied factor analysis*. Evanston: Ill.: Northwestern University Press.

Satterthwaite, F. E. 1946. An approximate distribution of estimates of variance components. *Biometrics Bulletin*, 2: 110–114.

Scheffé, H. A. 1959. *The analysis of variance*. New York: John Wiley & Sons, Inc.

Schiffman, S. S., Reynolds, M. L., and Young, F. W. 1981. *Introduction to multidimensional scaling*: *theory*, *methods and applications*. New York: Academic Press.

Schrage, L. 1979 A more portable Fortran random number generator. *ACM Transactions on Mathematical Software*, 5, No. 2:132.

Searle, S. R. 1966. *Matrix algebra for the biological sciences*. New York: John Wiley & Sons, Inc.

Searle, S. R. 1971. *Linear models*. New York: John Wiley & Sons, Inc.

Searle, S. R. 1982. *Matrix algebra useful for statistics*. New Work: John Wiley & Sons, Inc.

Searle, S. R., Casella, G., and McCulloch, C. E. 1992. *Variance components*. New York: John Wiley & Sons, Inc.

Searle, S. R., Speed, F. M., and Milliken, G. A. 1980. Population marginal means in the linear model: an alternative to least squares means. *The American Statistician*, 34: 216–221.

Seber, G. A. F. 1984. *Multivariate observations*. New York: John Wiley & Sons, Inc. (Section 9.2.6).

Shea, B. L. 1988. Algorithm AS 239: Chi-squared and incomplete gamma integral. *Applied Statistics*, 37: 466–473.

Shea, B. L. 1989. AS R77: A remark on algorithm AS 152, *Applied Statistics*, 38: 199–204.

Shea, B. L., 1991. AS R85: A remark on algorithm AS 91, *Applied Statistics*, 40: 233–235.

Siegel, S. 1956. *Nonparametric statistics for the behavioral sciences*. New York: McGraw-Hill.

Singleton, R. C. 1969. Algorithm 347: Efficient sorting in minimal storage. *Communications of the ACM*, 12: 185–187.

Smirnov, N. V. 1948. Table for estimating the goodness of fit of empirical distributions. *Annals of Mathematical Statistics*, 19: 279–281.

Snedecor, G. W., and Cochran, W. G. 1967. *Statistical methods*. Ames, Iowa: Iowa State University Press.

Speed, F. M. 1976. Response curves in the one-way classification with unequal numbers of observations per cell. *Proceedings of the Statistical Computing Section, American Statistical Association.* 270–272.

Spicer, C. C. 1972. Algorithm AS 52: Calculation of power sums of deviations about the mean. *Applied Statistics*, 21: 226–227.

Stewart, G. W. 1973. *Introduction to matrix computations*. New York: Academic Press.

Storer, B. E., and Crowley, J. 1985. A diagnostic for Cox regression and general conditional likelihoods. *Journal of the American Statistical Association*, 80: 139–147.

Tadikamalla, P. R. 1978. Computer generation of gamma random variables. *Communications of the ACM*, 21: 419–422.

Takane, Y., de Leeuw, J., and Young, F. W. 1977. Nonmetric individual differences multidimensional scaling: an alternating least squares method with optimal scaling features. *Psychometrika*, 42: 7–67.

Tarone, R. 1975. Tests for trend in life table analysis. *Biometrika*, 62: 679–682.

Tarone, R., and Ware, J. 1977. On distribution free tests for equality of survival distributions. *Biometrika*, **64**(1): 156–160.

Tatsuoka, M. M. 1971. *Multivariate analysis*. New York: John Wiley & Sons, Inc.

Taylor, G. A. R. 1970. Algorithm AS 27: The integral of Student's *t*-distribution. *Applied Statistics*, 19: 113–114.

Theil, H. 1953a. *Repeated least square applied to complete equation systems*. The Hague: Central Planning Bureau.

Theil, H. 1953b. *Estimation and simultaneous correlation in complete equation systems*. The Hague: Central Planning Bureau.

Timm, N. H. 1975. *Multivariate analysis with applications in education and psychology*. Monterey, Calif.: Brooks and Cole.

Tucker, L. R. 1972. Relations between multidimensional scaling and three mode factor analysis. *Psychometrika*, 37: 3–28.

Tukey, J. W. 1962. The future of data analysis. *The Annals of Mathematical Statistics*, 33: 1–67 (Correction: 33: 812)

Tukey, J. W. 1977. *Exploratory data analysis*. Reading, Mass.: Addison-Wesley.

Van de Geer, J. P. 1971. *Introduction to multivariate analysis for the social sciences*. San Francisco: W. H. Freeman.

Van de Geer, J. P. 1987. *Algebra and geometry of OVERALS*. Leiden: Internal Report RR-87–13, Department of Data Theory.

Van der Burg, E. 1988. *Nonlinear canonical correlation and some related techniques*. Leiden: DSWO Press.

Van der Burg, E., De Leeuw, J., and Verdegaal, R. 1984. *Non-linear canonical correlation analysis*. Leiden: Internal Report RR-84–12, Department of Data Theory.

Van der Burg, E., De Leeuw, J., and Verdegaal, R. 1988. Homogeneity analysis with *k* sets of variables: an alternating least squares method with optimal scaling features. *Psychometrika*, 53: 177–197.

Van Rijckevorsel, J., and De Leeuw, J. 1979. *An outline of PRINCALS*. Leiden: Internal Report RB 002–'79, Department of Data Theory.

Velleman, P. F. 1980 Definition and comparison of robust nonlinear data smoothing algorithms. *Journal of the American Statistical Associations*, 75: 609–615.

Velleman, P. F., and Hoaglin, D. C. 1981. *Applications*, *basics*, *and computing of exploratory data analysis*. Boston: Duxbury Press.

Velleman, P. F., and Welsch, R. E. 1981. Efficient computing of regression diagnostics. *The American Statistician*, 35: 234–242.

Verdegaal, R. 1986. *OVERALS*. Leiden: Internal Report UG-86–01, Department of Data Theory.

Von Neumann, J. 1951. Various techniques used in connection with random digits. *National Bureau of Standards Applied Mathematics*, Series 12: 36–38.

Wichura, M. J. 1988. Algorithm AS 241: The percentage points of the normal distribution. *Applied Statistics*, 37: 477–484.

Wilkinson, J. H. 1965. *The algebraic eigenvalue problem*. Oxford: Clarendon Press.

Wilkinson, J. H., and Reinsch, C. 1971. Linear algebra. In: *Handbook for Automatic Computation*, Volume II, J. H. Wilkinson and C. Reinsch, eds. New York: Springer-Verlag.

Winer, B. J. 1971. *Statistical principles in experimental design*, 2nd ed. New York: McGraw-Hill.

Wolter, K. M. 1985. *Introduction to variance estimation*. Berlin: Springer-Verlag.

Young, E. A., and Cramer, E. W. 1971. Some results relevant to choice of sum and sum-of-product algorithms. *Technometrics*, 13: 657–665.

Young, F. W., and Lewyckyj, R. 1979. *ALSCAL-4 user's guide*. Carrboro: N.C.: Data Analysis and Theory Associates.

Young, F. W., Easterling, D. V., and Forsyth, B. N. 1984. The general Euclidean model for scaling three mode dissimilarities: theory and application. In: *Research Methods for Multi-mode Data Analysis in the Behavioral Sciences*, H. G. Law, G. W. Snyder, Jr., J. Hattie, and R. P. McDonald, eds. New York: Praeger.

Young, F. W., Takane, Y., and Lewyckyj, R. 1978. ALSCAL: A nonmetric multidimensional scaling program with several difference options. *Behavioral Research Methods and Instrumentation*, 10: 451–453.

Young, J. C., and Minder, C. E. 1974. Algorithm AS 76: An integral useful in calculating noncentral t and bivariate normal probabilities. *Applied Statistics*, 23: 455–457.