## Bibliography

- Anderson, T.W. (1982), Estimating Linear Structural Relationships, Technical Report # 389, Institute for Mathematical studies in the Social Sciences, Stanford University, California.
- Barnett, V. (Ed) (1981), Interpreting Multivariate Data, Wiley, Chichester.
- Becker, R.A. and Chambers, J.M. (1984), S: An Interactive Environment for Data Analysis and Graphics, Wadsworth, California.
- Boynton, R.M. and Gordon, J. (1965), Bezold-Brüke Hue Shift Measured by Color-Naming Technique, J. Opt. Soc. Amer, 55, 78-86.
- Breiman, L. and Friedman, J.H. (1982), Estimating Optimal Transformations for Multiple Regression and Correlation, Dept. of Statistics Tech. Rept, Orion 16, Stanford University.
- Chernoff, H. (1973), The use of Faces to Represent Points in k-dimensional Space Graphically, Journal of the American Statistical Association, 68, #342, 361-368.
- Chung, K.L. (1974), A Course in Probability Theory, Academic Press, New York.
- Cleveland, W.S. (1979), Robust Locally Weighted Regression and Smoothing Scatterplots.

  Journal of the American Statistical Association, 74, 829-836.
- Cleveland, W.S. (1983), The Many Faces of a Scatterplot, Submitted for publication.
- Craven, P. and Wahba, G. (1979), Smoothing Noisy Data with Spline Functions: Estimating the Correct Degree of Smoothing by the Method of Generalized Cross-validation, Numer. Math., 31, 377-403.
- do Carmo, M.P. (1976), Differential Geometry of Curves and Surfaces, Prentice Hall, New Jersy.
- Etezadi-Amoli, J. and McDonald, R.P. (1983), A Second Generation Nonlinear Factor Analysis, Psychometrika, 48, #3, 315-342.
- Efron, B. (1981), Non-parametric Standard Errors and Confidence Intervals, Canadian Journal of Statistics, 9, 139-172.

- Efron, B. (1982), The Jacknife, the Bootstrap and other Resampling Plans, SIAM-CBMS, 38.
- Efron, B. (1984), Bootstrap Confidence Intervals for Parametric Problems, Technical Report #90, Division of Biostatistics, Stanford University.
- Friedman, J.H. (1983), Personal communication.
- Friedman, J.H, Bently, J.L. and Finkel, R.I. (1976), An Algorithm for Finding Best Matches in Logarithmic Expected Time. STAN-CS-75-482, Stanford University.
- Friedman, J.H. and Stuetzle, W. (1982), Smoothing of Scatterplots, Dept. of Statistics Tech. Rept. Orion 3, Stanford University.
- Gasser, Th. and Muller, H.G. (1979), Kernel Estimation of Regression Functions, in Smoothing Techniques for Curve Estimation, Proceedings, Heidelberg, Springer Verlag.
- Gnanadesikan, R. (1977), Methods for Statistical Data Analysis of Multivariate Observations, Wiley, New York.
- Gnanadesikan, R. and Wilk, M.B. (1969), Data Analytic Methods in Multivariate Statistical Analysis, in Multivariate Analysis II (P.R. Krishnaiah, ed.), Academic Press, New York.
- Golub, G.H. and Reinsch, C. (1970), Singular Value Decomposition and Least Squares Solutions, Numer. Math. 14, 403-420
- Golub, G.H. and van Loan, C. (1979), Total Least Squares, in Smoothing Techniques for Curve Estimation, Proceedings, Heidelberg, Springer Verlag.
- Greenacre, M. (1984), Theory and Applications of Correspondence Analysis, Academic Press, London.
- Hastie, T.J. (1983), Principal Curves, Dept. of Statistics Tech. Rept. Orion 24, Stanford University.
- Hastie, T.J. and Stuetzle, W. (1984), *Principal Curves and Surfaces*, (Motion Graphics Movie), Dept. of Statistics, Stanford University.
- Hotelling, H. (1933), Analysis of a Complex of Statistical Variables into Principal Components, J. Educ. Psych., 24, 417-441, 498-520.

- Kendall, M.G. and Stuart, A. (1961), The Advanced Theory of Statistics, Volume 2, Hafner, New York.
- Kruskal, J.B. (1964a), Multidimensional Scaling by Optimizing Goodness of Fit to a Nonmetric Hypothesis, Psychometrika, 29, #1, 1-27.
- Kruskal, J.B. (1964b), Nonmetric Multidimensional Scaling: a Numerical Method, Psychometrika, 29, #2, 115-129.
- Lindley, D.V. (1947), Regression Lines and the Linear Functional Relationship, Journal of the Royal Statistical Society, Supplement, 9, 219-244.
- Madansky, A. (1959), The Fitting of Straight Lines when both Variables are Subject to Error, Journal of the American Statistical Society, 54, 173-205.
- Mosteller, F. and Tukey, J. (1977), Data Analysis and Regression, Addison Wesley, Massachusetts.
- Reinsch, C. (1967), Smoothing by Spline Functions, Numer. Math., 10, 177-183.
- Shepard, R.N. (1962), The Analysis of Proximities: Multidimensional Scaling with an unknown Distance Function, Psychometrika, 27, 123-139, 219-246.
- Shepard, R.N. and Carrol, J.D. (1966), Parametric Representations of Non-Linear Data Structures, in Multivariate Analysis (Krishnaiah, P.R.ed), Academic Press, New York.
- Shepard, R.N. and Kruskal, J.B. (1964), Non-metric Methods for Scaling and for Factor Analysis, Amer. Psychologist, 19, 557-558.
- Spearman, C. (1904), General Intelligence, Objectively determined and Measures, American Journal of Psychology, 15, 201-293.
- Stone, M. (1977), An Asymptotic choice of Model by Cross-validation and Akaike's Criterion, Roy. Stat. Soc. B, 7, 44-47.
- Thorpe, J.A. (1978), Elementary Topics in Differential Geometry, Springer-Verlag, New York. Undergraduate Text in Mathematics.
- Tibshirani, R.J. (1984), Bootstrap Confidence Intervals, Technical Report #91, Division of Biostatistics, Stanford University.
- Torgeson, W.S. (1958), Theory and Methods of Scaling, Wiley, New York.
- Wilkinson, J.H. (1965), The Algebraic Eigenvalue Problem, Clarendon Press, Oxford.

- Wahba, G. and Wold, S. (1975), A Completely Automatic French Curve: Fitting Spline Functions by Cross-validation, Comm. Statistics, 4, 1-7.
- Williams, P.T. and Krauss, R.M. (1982), Graphical Analysis of the Sectional Interrelationships among Subfractions of Serum Lipoproteins in Middle Aged Men, unpublished manuscript, Stanford University.
- Young, F.W, Takane, Y, and de Leuuw, J. (1978), The Principal Components of Mixed Measurement Level Multivariate Data: an Alternating Least Squares Method with Optimal Scaling Features, Psychometrika, 43, no.2.