

References

- Abraham, B. (1977).** Control Charts and Measurement Error, *Annual Technical Conference of the American Society for Quality Control*, 31, 370-374.
- Acosta-Mejia, C.A. and Pignatiello, J.J., Jr. (2000).** Monitoring Process Dispersion Without Subgrouping, *Journal of Quality Technology*, 32, 89-102.
- Alt, F.B. (1985).** Multivariate Quality Control, *The Encyclopedia of Statistical Sciences*, Kotz S., Johnson, N.L. and Read, C.R. (eds), John Wiley & Sons, New York, 110-122.
- Alt, F.B. and Smith, N.D. (1988).** Multivariate Process Control, Handbook of Statistics, P.R. Krishnaiah and C.R. Rao (eds), North-Holland: Elsevier Science Publishers B.V., 7, 333-351.
- Aparisi F. (1996).** Hotelling's T^2 Control Chart With Adaptive Sample Sizes, *International Journal of Production Research*, 34, 2853-2862.
- Aparisi, F., Jabaloyes, J. and Carrion, A. (2001).** Generalized Variance Chart Design with Adaptive Sample Sizes. The Bivariate Case, *Communications in Statistics - Simulation and Computation*, 30, 931-948.
- Barnard, G.A. (1959).** Control Charts and Stochastic Processes, *Journal of the Royal Statistical Society B*, 21, 239-271.
- Bauer, P. (1981).** On the Robustness of Hotelling's T^2 , *Biometrical Journal*, 23,

405-412.

Bennet, C.A. (1954). Effect of Measurement Error on Chemical Process Control, *Industrial Quality Control*, 10, 17-20.

Bersimis, S. (2001). Multivariate Statistical Process Control, *M.Sc. Thesis, Department of Statistics, Athens University of Economics and Business*, ISBN 960-7929-45-4.

Bissell, A.F. (1969). Cusum Techniques for Quality Control, *Applied Statistics*, 18, 1-30.

Bodden, K.M. and Rigdon, S.E. (1999). A Program for Approximating the In Control ARL for the MEWMA Chart, *Journal of Quality Technology*, 31, 120-123.

Borror, C.M., Champ, C.W. and Ridgon, S.E. (1998). Poisson EWMA Control Charts, *Journal of Quality Technology*, 30, 352-361.

Borror, C.M. and Champ, C.W. (2001). Phase I Control Charts for Independent Bernoulli Data, *Quality and Reliability Engineering International*, 17, 391-396.

Borror, C.M., Montgomery, D.C. and Runger, G.C. (1999). Robustness of the EWMA Control Chart to Non-normality, *Journal of Quality Technology*, 31, 309-316.

Braun, W.J. (1999). Run Length Distributions for Estimated Attributes Charts, *Metrika*, 50, 121-129.

Brook, D. and Evans, D.A. (1972). An Approach to the Probability Distribution of CUSUM Run Length, *Biometrika*, 59, 539-549.

Burr, I.J. (1967). The Effect of Nonnormality on Constants for \bar{X} and R Charts, *Industrial Quality Control*, 23, 563-568.

Chakraborti, S., Van Der Laan, P. and Bakir, S.T. (2001). Nonparametric Control Charts: An Overview And Some Results, *Journal of Quality Technology*, 33, 304-315.

Champ, C.W. (2001). Designing an ARL Unbiased R-Chart, *Proceedings of the 6th International Conference of the Decisions Sciences Institute, Chihuahua, Mexico*, July 8-11.

Champ, C.W. and Chou, S-P. (2003). Comparisons of Standard and Individuals Limits Phase I Shewhart \bar{X} , R and S Charts, *Quality and Reliability Engineering International*, 19, 161-170.

Champ, C.W. and Rigdon, S.E. (1991). A Comparison of the Markov Chain and the Integral Equation Approaches for Evaluating the Run Length Distribution of Quality Control Charts, *Communication in Statistics, Simulation and Computation*, 20, 191-204.

Champ, C.W., Rigdon, S.E. and Scharnagl, K.A. (2001). A Method for Deriving Integral Equations Useful in Control Chart Performance Analysis, *Nonlinear Analysis*, 47, 2089-2101.

Champ, C.W. and Woodall, W.H. (1987). Exact Results for Shewhart Control Charts With Supplementary Runs Rules, *Technometrics*, 22, 393-399.

Chan, L.K. and Zhang, J. (2001). Cumulative Sum Control Charts for the Covariance Matrix, *Statistica Sinica*, 11, 767-790.

Chang, T.C. and Gan, F.F. (1995). A Cumulative Sum Control Chart for Monitoring Process Variance, *Journal of Quality Technology*, 27, 109-119.

Chase, G.R. and Bulgren, G. (1971). A Monte Carlo Investigation of the Robustness of T^2 , *Journal of the American Statistical Association*, 66, 499-502.

Chen, G. (1997). The Mean and Standard Deviation of the Run Length Distribution of \bar{X} Charts when Control Limits Are Estimated, *Statistica Sinica*, 7, 789-798.

Chen, G. (1998). The Run Length Distributions of the R , s and s^2 Control Charts when σ is Estimated, *The Canadian Journal of Statistics*, 26, 311-322.

Chen, G., Cheng, S. and Xie, H. (2001). Monitoring Process Mean and Variability With One EWMA Chart, *Journal of Quality Technology*, 33, 223-233.

Chou, Y-M., Mason, R.L. and Young, J.C. (1999). Power Comparisons for a Hotelling's T^2 Statistic, *Communications in Statistics - Simulation and Computation*, 28, 1031-1050.

Chua, M-K. and Montgomery, D.C.(1992). Investigation and Characterization

of a Control Scheme for Multivariate Quality Control, *Quality and Reliability Engineering International*, 8, 37-44.

Crosier, R.B. (1988). Multivariate Generalizations of Cumulative Sum Quality-Control Schemes, *Technometrics*, 30, 291-303.

Crowder, S.V. (1987). A Simple Method for Studying Run Length Distributions of Exponentially Weighted Moving Average Charts, *Technometrics*, 29, 401-407.

Crowder, S.V. and Hamilton, M. (1992). An EWMA for Monitoring Standard Deviation, *Journal of Quality Technology*, 24, 12-21.

Cryer, J.D. and Ryan, T.P. (1990). The Estimation of Sigma for an \bar{X} Chart: \overline{MR}/d_2 or s/c_4 ?, *Journal of Quality Technology*, 22, 187-192.

Derman, C. and Ross, S. (1995). An Improved Estimator of σ in Quality Control, *Probability in the Engineering and Informational Sciences*, 9, 411-415.

Doganaksoy, N., Faltin, F.W. and Tucker, W.T. (1991). Identification of Out-of-Control Multivariate Characteristic in a Multivariable Manufacturing Environment, *Communications in Statistics - Theory and Methods*, 20, 2775-2790.

Domangue, R. and Patch, S.C. (1991). Some Omnibus Exponentially Weighted Moving Average Statistical Process Monitoring Schemes, *Technometrics*, 33, 299-313.

Duncan, A.J. (1974). *Quality Control and Industrial Statistics*. Homewood, IL, Irwin.

Everitt, B.S. (1979). A Monte Carlo Investigation of the Robustness of Hotelling's One and Two Sample T^2 tests, *Journal of the American Statistical Association*, 74, 48-51.

Ewan, W.D. and Kemp, K.W. (1960). Sampling Inspection of Continuous Processes With No Autocorrelation Between Successive Results, *Biometrika*, 47, 363-380.

Fasso, A. (1999). One-Sided MEWMA Control Charts, *Communications in Statistics - Theory and Methods*, 28, 381-401.

Fuchs, C. and Benjamini, Y. (1994). Multivariate Profile Charts for Statistical Process Control, *Technometrics*, 36, 182-195.

Fuchs, C. and Kenett, R.S. (1998). *Multivariate Quality Control*. Marcel Dekker,

New York.

Gan, F.F. (1990). Monitoring Observations Generated from a Binomial Distribution Using Modified Exponentially Weighted Moving Average Control Chart, *Journal of Statistical Computation and Simulation*, 37, 45-60.

Gan, F.F. (1993a). An Optimal Design of CUSUM Control Charts for Binomial Counts, *Journal of Applied Statistics*, 20, 445-460.

Gan, F. F. (1993b). An optimal design of EWMA control charts based on median run length, *Journal of Statistical Computation and Simulation*, 45, 169-184.

Gan, F. F. (1994). An Optimal Design of Cumulative Sum Control Chart Based on Median Run Length, *Communications in Statistics - Simulation and Computation*, 23, 485-503.

Ghosh, B.K., Reynolds, M.R., Jr. and Van Hui, Y. (1981). Shewhart \bar{X} Charts With Estimated Variance, *Communications in Statistics - Theory and Methods*, 18, 1797-1822.

Hamilton, M. and Crowder, S.V. (1992). Average Run Lengths of EWMA Control Charts for Monitoring a Process Standard Deviation, *Journal of Quality Technology*, 24, 44-50.

Hauck, D.J., Runger, G.C. and Montgomery, D.C. (1999). Multivariate Statistical Process Monitoring and Diagnosis with Grouped Regression-Adjusted Variables, *Communications in Statistics - Simulation and Computation*, 28, 309-328.

Hawkins, D.M. (1991). Multivariate Quality Control Based on Regression-Adjusted Variables, *Technometrics*, 33, 61-75.

Hawkins, D.M. (1992). Evaluation of the Average Run Length of Cumulative Sum Charts for an Arbitrary Data Distribution, *Communications in Statistics - Simulation and Computation*, 21, 1001-1020.

Hawkins, D.M. (1993). Regression Adjustment for Variables in Multivariate Quality Control, *Journal of Quality Technology*, 25, 170-182.

Hawkins, D. M. and Olwell, D. H. (1998). *Cumulative Sum Charts and Charting*

for *Quality Improvement*, Springer-Verlag, New-York.

Hayter, A.J. and Tsui, K-L.(1994). Identification and Quantification in Multivariate Quality Control Problems, *Journal of Quality Technology*, 26, 197-208.

Healy, J.D. (1987). A Note on Multivariate CUSUM Procedures, *Technometrics*, 29, 409-412.

Hillier, F.S. (1969). \bar{X} and R Chart Control Limits Based on a Small Number of Subgroups, *Journal of Quality Technology*, 1, 17-26.

Hinkley, D.V. (1969). On the Ratio of Two Correlated Normal Random Variables, *Biometrika*, 56, 635-639.

Hotelling, H. (1947). Multivariate Quality Control - Illustrated by the Air Testing of Sample Bombsights, *Techniques of Statistical Analysis*, Eisenhart, C., Hastay, M.W., Wallis, W.A. (eds), New York: MacGraw-Hill, 111-184.

Hunter, J.S. (1986). The Exponentially Weighted Moving Average, *Journal of Quality Technology*, 18, 203-210.

Ingolfson, A. and Sachs, E. (1993). Stability and Sensitivity of an EWMA Controller, *Journal of Quality Technology*, 25, 271-287.

Jackson, J.E. (1991). *A User Guide to Principal Components*. John Wiley & Sons, New York.

Janacek, G.J. and Meikle, S.E. (1997). Control Charts Based on Medians, *The Statistician*, 46, 19-31.

Jones, L.A., Champ, C.W. and Rigdon, S.E. (2001). The Performance of Exponentially Weighted Moving Average Charts With Estimated Parameters, *Technometrics*, 43, 156-167.

Jones, L.A. (2002). The Statistical Design of EWMA Control Charts with Estimated Parameters, *Journal of Quality Technology*, 34, 277-288.

Jolayemi, J.K. (1995). A Power Function Model for Determining Sample Sizes for the Operations of Multivariate Control Charts, *Computational Statistics & Data Analysis*, 20, 633-641.

- Jolayemi, J.K. (1999).** A Statistical Model for the Design of Multiattribute Control Charts, *Sankhya B*, 61, 351-365.
- Kanazuka, T. (1986).** The Effects of Measurement Error on the Power of $\bar{X} - R$ charts, *Journal of Quality Technology*, 18, 91-95.
- Klein, M. (2000).** Modified S-Charts for Controlling Process Variability, *Communications in Statistics - Simulation and Computation*, 29, 919-940.
- Koning, A.J. and Does, R.J.M.M. (2000).** CUSUM Charts for Preliminary Analysis of Individual Observations, *Journal of Quality Technology*, 32, 122-132.
- Kourti, T. and MacGregor, J.F. (1996).** Multivariate SPC Methods for Process and Product Monitoring, *Journal of Quality Technology*, 28, 409-428.
- Kramer, H.G. and Schmid, W. (1997).** EWMA Charts for Multivariate Time Series, *Sequential Analysis*, 16, 131-154.
- Linna, K.W. and Woodall, W.H. (2001).** Effect of Measurement Error on Shewhart Control Charts, *Journal of Quality Technology*, 33, 213-222.
- Linna, K.W., Woodall, W.H. and Busby, K.L. (2001).** The Performance of Multivariate Control Charts in the Presence of Measurement Error, *Journal of Quality Technology*, 33, 349-355.
- Lowry, C.A., Champ, C.W., and Woodall, W.H. (1995).** The Performance of Control Charts for Monitoring Process Variation, *Communications in Statistics - Simulation and Computation*, 24, 409-437.
- Lowry, C.A. and Montgomery, D.C. (1995).** A Review of Multivariate Control Charts, *IIE Transactions*, 27, 800-810.
- Lowry, C.A., Woodall, W.H., Champ, C.W. and Rigdon, S.E. (1992).** A Multivariate EWMA Control Chart, *Technometrics*, 34, 46-53.
- Lu, X.S., Xie, M., Goh, T.N. and Lai, C.D. (1998).** Control Charts for Multivariate Attribute Processes, *International Journal of Production Research*, 36, 3477-3489.
- Lucas, J.M. (1985).** Counted Data CUSUM's, *Technometrics*, 27, 129-144.

Lucas, J.M. and Crosier, R.B. (1982). Fast Initial Response for CUSUM Quality-Control Schemes: Give Your CUSUM a Head Start, *Technometrics*, 24, 199-205.

Lucas, J.M. and Saccucci, M.S. (1990). Exponentially Weighted Moving Average Control Schemes: Properties and Enhancements, *Technometrics*, 32, 1-12.

MacGregor, J.F. and Harris, T.J. (1993). The Exponentially Weighted Moving Variance, *Journal of Quality Technology*, 25, 106-118.

Mader, D.P., Glycenfer, J.J. and Prins, J. (1996). An Application in Multivariate Statistical Process Control for Power Supply Calibration, *Quality Engineering*, 9, 99-106.

Maravelakis, P.E., Panaretos, J. and Psarakis, S. (2002). Effect of Estimation of the Process Parameters on the Control Limits of the Univariate Control Charts for Process Dispersion, *Communications in Statistics - Simulation and Computation*, 31, 443-461.

Maravelakis, P.E., Bersimis, S., Panaretos, J. and Psarakis, S. (2002). Identify the Out of Control Variable in a Multivariate Control Chart, *Communications in Statistics - Theory and Methods*, 31, 2391-2408.

Maravelakis, P.E., Panaretos, J. and Psarakis, S. (2003). An Examination of the Robustness to Non-normality of the EWMA Control Charts for the Dispersion, (submitted).

Maravelakis, P.E., Panaretos, J. and Psarakis, S. (2004). EWMA Chart and Measurement Error, *Journal of Applied Statistics*, (to appear).

Mardia, K.V. (1974). Applications of Some Measures of Multivariate Skewness and Kurtosis for Testing Normality and Robustness Studies, *Sankya B*, 36, 115-128.

Mardia, K.V. (1975). Assessment of Multinormality and the Robustness of Hotelling's T^2 test, *Applied Statistics*, 24, 163-171.

Margavio, T.M. and Conerly, M.D. (1995). A Comparison of Multivariate Moving Average Control Charts for the Process Mean, *International Journal of Production*

Research, 33, 1313-1321.

Mason, R.L., Champ, C.W., Tracy, N.D., Wierda, R.J. and Young, J.C. (1997). Assessment of Multivariate Process Control Techniques, *Journal of Quality Technology*, 29, 140-143.

Mason, R.L., Tracy, N.D. and Young, J.C. (1995). Decomposition of T^2 for Multivariate Control Chart Interpretation, *Journal of Quality Technology*, 27, 99-108.

Mason, R.L., Tracy, N.D. and Young, J.C. (1996). Monitoring a Multivariate Step Process, *Journal of Quality Technology*, 28, 39-50.

Mason, R.L., Tracy, N.D. and Young, J.C. (1997). A Practical Approach for Interpreting Multivariate T^2 Control Chart Signals, *Journal of Quality Technology*, 29, 396-406.

Mason, R.L. and Young, J.C. (1999). Improving the Sensitivity of the T^2 Statistic in Multivariate Process Control, *Journal of Quality Technology*, 31, 155-165.

Mason, R.L., Chou, Y-M. and Young, J.C. (2001). Applying Hotelling's T^2 Statistic to Batch Processes, *Journal of Quality Technology*, 33, 466-479.

Mason, R.L. and Young, J.C. (2002). *Multivariate Statistical Process Control with Industrial Applications*. ASA and SIAM.

Mittag, H.-J. (1995). Measurement Error Effect on Control Chart Performance, *ASQC Annual Proceedings*, 49, 66-73.

Mittag, H.-J. and Stemann, D. (1998). Gauge Imprecision Effect on the Performance of the $\bar{X} - S$ Control Chart, *Journal of Applied Statistics*, 25, 307-317.

Molnau, W.E., Runger, G.C., Montgomery, D.C., Skinner, K.R., Lored, E.N. and Prabhu, S.S. (2001). A Program for ARL Calculation for Multivariate EWMA Charts, *Journal of Quality Technology*, 33, 515-521.

Montgomery, D.C. (2001). *Introduction to Statistical Quality Control*. 4th ed. John Wiley & Sons, New York, NY.

Montgomery, D.C. and Runger, G.C. (1994). Gauge Capability and Designed Experiments. Part I: Basic Methods, *Quality Engineering*, 6, 115-135.

- Moustakides, G.V. (1986).** Optimal Stopping Times for Detecting Changes in Distributions, *The Annals of Statistics*, 14, 1379-1387.
- Murphy, B.J. (1987).** Selecting Out-of-Control Variables with T^2 Multivariate Quality Procedures, *The Statistician*, 36, 571-583.
- Nedumaran, G. and Pignatiello, J.J., Jr. (1999).** On Constructing T^2 control charts for on-line process monitoring, *IIE Transactions*, 31, 529-536.
- Nedumaran, G. and Pignatiello, J.J., Jr. (2000).** On Constructing T^2 Control Charts for Retrospective Examination, *Communications in Statistics - Simulation and Computation*, 29, 621-632.
- Nedumaran, G. and Pignatiello, J.J., Jr. (2001).** On Estimating \bar{X} Control Chart Limits, *Journal of Quality Technology*, 33, 206-212.
- Nelson, L.S. (1982).** Control Charts for Individual Measurements, *Journal of Quality Technology*, 14, 172-173.
- Ng, C.H. and Case, K.E. (1989).** Development and Evaluation of Control Charts Using Exponentially Weighted Moving Averages, *Journal of Quality Technology*, 21, 242-250.
- Ngai, H.M. and Zhang, J. (2001).** Multivariate Cumulative Sum Control Charts Based on Projection Pursuit, *Statistica Sinica*, 11, 747-766.
- Page, E.S. (1954).** Continuous Inspection Schemes, *Biometrika*, 41, 100-115.
- Patel, H.I. (1973).** Quality Control Methods for Multivariate Binomial and Poisson Distributions, *Technometrics*, 15, 103-112.
- Pearson, E.S. (1941).** The Probability Integral of the Range in Samples of n Observations from a Normal Population, *Biometrika*, 32, 301-308.
- Pignatiello, J.J., Jr. and Runger, G.C. (1990).** Comparisons of Multivariate CUSUM Charts, *Journal of Quality Technology*, 22, 173-186.
- Prabhu, S.S. and Runger, G.C. (1997).** Designing a Multivariate EWMA Control Chart, *Journal of Quality Technology*, 29, 8-15.
- Proschan, F. and Savage, I.R. (1960).** Starting A Control Chart, *Industrial*

Quality Control, 17, 12-13.

Quesenberry, C.P. (1993). The Effect of Sample Size on Estimated Limits for \bar{X} and X Control Charts, *Journal of Quality Technology*, 25, 237-247.

Quesenberry, C. P. (1995a). On Properties of Q Charts for Variables, *Journal of Quality Technology*, 27, 184-203.

Quesenberry, C.P. (1995b). On Properties of Binomial Q Charts for Attributes, *Journal of Quality Technology*, 27, 204-213.

Quesenberry, C.P. (1995c). On Properties of Poisson Q Charts for Attributes, *Journal of Quality Technology*, 27, 293-303.

Reynolds, M.R., Jr., Amin, R.W. and Arnold, J.C. and Nachlas, J.A. (1988). \bar{X} Charts with Variable Sampling Intervals, *Technometrics*, 30, 181-192.

Reynolds, M.R., Jr., Amin, R.W. and Arnold, J.C. (1990). CUSUM Charts for Variable Sampling Intervals, *Technometrics*, 32, 371-384.

Reynolds, M.R., Jr. and Stoumbos, Z.G. (2001). Monitoring the Process Mean and Variance Using Individual Observations and Variable Sampling Intervals, *Journal of Quality Technology*, 33, 181-205.

Rigdon, S.E. (1995a). A double-integral Equation for the Average Run Length of a MEWMA Control Chart, *Statistics and Probability Letters*, 24, 365-373.

Rigdon, S.E. (1995b). An Integral Equation for the In Control Average Length of a MEWMA Control Chart, *Journal of Statistical Computation and Simulation*, 52, 351-365.

Rigdon, S.E., Cruthis, E.M. and Champ, C.W. (1994). Design Strategies for Individuals and Moving Range Control Charts, *Journal of Quality Technology*, 26, 274-287.

Roberts, S.W. (1959). Control Chart Tests Based on Geometric Moving Averages, *Technometrics*, 1, 239-250.

Robinson, P.B. and Ho, T.Y. (1978). Average Run Lengths of Geometric Moving Average Charts by Numerical Methods, *Technometrics*, 20, 85-93.

- Roes, K.C.B., Does, R.J.M.M. and Schuring, Y. (1993).** Shewhart-type Control Charts for Individual Observations, *Journal of Quality Technology*, 25, 188-198.
- Roy, J. (1958).** Step-down Procedure in Multivariate Analysis, *Annals of Mathematical Statistics*, 29, 1177-1187.
- Runger, G.C., and Alt, F.B. (1996).** Choosing Principal Components for Multivariate SPC, *Communications in Statistics - Theory and Methods*, 25, 909-922.
- Runger, G.C., Alt, F.B. and Montgomery, D.C. (1996).** Contributors to a Multivariate SPC Chart signal, *Communications in Statistics - Theory and Methods*, 25, 2203-2213.
- Runger, G.C., Keats, J.B., Montgomery, D.C. and Scranton, R.D. (1999).** Improving the Performance of a Multivariate EWMA Control Chart, *Quality and Reliability Engineering International*, 15, 161-166.
- Runger, G.C. and Prabhu, S.S. (1996).** A Markov Chain Model for the Multivariate EWMA Control Chart, *Journal of the American Statistical Association*, 91, 1701-1706.
- Ryan, T.P. (2000).** *Statistical Methods for Quality Improvement*. 2nd ed. John Wiley & Sons, New York.
- Saccucci, M.S. and Lucas, J.M. (1990).** Average Run Lengths for Exponentially Weighted Moving Average Control Schemes Using the Markov Chain Approach, *Journal of Quality Technology*, 22, 154-162.
- Schilling, E.G. and Nelson, P.R. (1976).** The Effect of Nonnormality on the Control Limits of Charts, *Journal of Quality Technology*, 8, 183-188.
- Seber, G.A.F. (1984).** *Multivariate Observations*. New York: John Wiley.
- Sepulveda, A. and Nachlas, J.A. (1997).** A Simulation Approach to Multivariate Quality Control, *Computers and Industrial Engineering*, 33, 113-116.
- Shewhart, W.A. (1931).** *Economic Control of Quality of Manufactured Product*. D. van Nostrand Co., New York.
- Sim, C.-H. (2000).** S-Chart for Non-Gaussian Variables, *Journal of Statistical*

Computation and Simulation, 65, 147-156.

Sparks, R.S. (1992). Quality Control with Multivariate Data, *Australian Journal of Statistics*, 34, 375-390.

Sparks, R.S., Adolphson, A. and Phatak, A. (1997). Multivariate Process Monitoring Using the Dynamic Biplot, *International Statistical Review*, 65, 325-349.

Srivastava, M.S. (1997). CUSUM for Monitoring Variability, *Communication in Statistics-Theory and Methods*, 26, 2905-2926.

Srivastava, M.S. and Awan, H.M. (1982). On the Robustness of Hotteling's T^2 Test and Distribution of Linear and Quadratic Forms in Sampling From a Mixture of Two Multivariate Normal Populations, *Communication in Statistics-Theory and Methods*, 11, 81-107.

Steiner, S.H. (1999). EWMA Control Charts with Time-Varying Control Limits and Fast Initial Response, *Journal of Quality Technology*, 31, 75-86.

Stemann, D. and Weihs, C. (2001). The EWMA-X-S-Control Chart and its Performance in the Case of Precise and Imprecise Data, *Statistical Papers*, 42, 207-223.

Stoumbos, Z.G. and Reynolds, M.R., Jr. (2000). Robustness to Non-Normality and Autocorrelation of Individual Control Charts, *Journal of Statistical Computation and Simulation*, 66, 145-187.

Stoumbos, Z.G. and Sullivan, J.H. (2002). Robustness to Non-Normality of the Multivariate EWMA Control Chart, *Journal of Quality Technology*, 34, 260-276.

Sullivan, J. H. and Woodall, W.H. (1996a). A Control Chart for Preliminary Analysis of Individual Observations, *Journal of Quality Technology*, 28, 265-278.

Sullivan, J.H. and Woodall, W.H. (1996b). A Comparison of Multivariate Control Charts for Individual Observations, *Journal of Quality Technology*, 28, 398-408.

Sullivan, J.H. and Woodall, W.H. (1998). Adapting Control Charts for the Preliminary Analysis of Multivariate Observations, *Communications in Statistics - Simulation and Computation*, 27, 953-979.

Sweet, A.L. (1986). Control Charts Using Coupled Exponentially Weighted Mov-

ing Averages, *IIE Transactions*, 18, 26-33.

Testik, M.C., Runger, G.C. and Borrer, C.M. (2003). Robustness Properties of Multivariate EWMA Control Charts, *Quality and Reliability Engineering International*, 19, 31-38.

Tiku, M.L. and Singh, M. (1982). Robust Statistics for Testing Mean Vectors of Multivariate Distributions, *Communication in Statistics-Theory and Methods*, 11, 985-1001.

Timm, N.H. (1996). Multivariate Quality Control Using Finite Intersection Tests, *Journal of Quality Technology*, 28, 233-243.

Tracy, N.D., Young, J.C. and Mason, R.L. (1992). Multivariate Control Charts for Individual Observations, *Journal of Quality Technology*, 24, 88-95.

Tracy, N.D., Young, J.C. and Mason, R.L. (1995). A Bivariate Control Chart for Paired Measurements, *Journal of Quality Technology*, 27, 370-376.

Van Dobben De Bruyn, C.S. (1968). *Cumulative Sum Tests: Theory and Practice*. Griffin, London, United Kingdom.

Vardeman, S.B. (1999). A Brief Tutorial on the Estimation of the Process Standard Deviation, *IIE Transactions*, 31, 503-507.

Wade, M.R. and Woodall, W.H. (1993). A Review and Analysis of Cause-Selecting Control Charts, *Journal of Quality Technology*, 25, 161-170.

Waldmann, K-H. (1986). Bounds for the Distribution of the Run Length of One-Sided and Two-Sided CUSUM Quality Control Schemes, *Technometrics*, 28, 61-67.

Wetherill, B.G. (1977). *Sampling Inspection and Quality Control*. Chapman and Hall, New York.

Wierda, S.J. (1994). Multivariate Statistical Process Control - Recent Results and Directions for Future Research, *Statistica Neerlandica*, 48, 147-168.

Woodall, W.H. (1983). The Distribution of the Run Length of One-Sided CUSUM Procedures for Continuous Random Variables, *Technometrics*, 25, 295-301.

Woodall, W.H. (1984). On the Markov Chain Approach to the Two-sided CUSUM

Procedure, *Technometrics*, 26, 41-46.

Woodall, W.H. (1985). The Statistical Design of Quality Control Charts, *The Statistician*, 34, 155-160.

Woodall, W.H. (1997). Control Charting Based on Attribute Data: Bibliography and Review, *Journal of Quality Technology*, 29, 172-183.

Woodall, W.H. (2000). Controversies and Contradictions in Statistical Process Control, *Journal of Quality Technology*, 32, 341-350.

Woodall, W.H. and Montgomery, D.C. (1999). Research Issues and Ideas in Statistical Process Control, *Journal of Quality Technology*, 31, 376-385.

Woodall, W.H. and Ncube, M.M. (1985). Multivariate CUSUM Quality Control Procedures, *Technometrics*, 27, 285-292.

Wortham, A.W. (1972). The Use of Exponentially Smoothed Data in Continuous Process Control, *International Journal of Production Research*, 10, 393-400.

Wortham, A.W. and Ringer, L.J. (1971). Control Via Exponential Smoothing, *The Transportation and Logistic Review*, 7, 33-39.

Yang, C-H., Hillier, F.S. (1970). Mean and Variance Control Chart Limits Based on a Small Number of Subgroups, *Journal of Quality Technology*, 2, 9-16.

Yang, Z., Xie, M., Kuralmani, V. and Tsui, K. (2002). On the Performance of Geometric Charts with Estimated Control Limits, *Journal of Quality Technology*, 34, 448-458.

Yashchin, E. (1985). On a Unified Approach to the Analysis of Two-sided Cumulative Sum Control Schemes With Head-Starts, *Advances in Applied Probability*, 17, 562-593.

Yashchin, E. (1994). Monitoring Variance Components, *Technometrics*, 36, 379-393.

Yourstone, S.A. and Zimmer, W.J. (1992). Non-Normality and the Design of Control Charts for Averages, *Decision Sciences*, 23, 1099-1113.

Yumin, L. (1996). An Improvement for MEWMA in Multivariate Process Control,

Computers and Industrial Engineering, 31, 779-781.