

References

- Acosta-Mejia, C. A. (1999). "Improved p charts to monitor process quality". *IIE Transactions*, 31(6):509-516.
- Albers, W., Kallenberg, W. C. M. (2004). "Empirical non-parametric control charts: Estimation effects and corrections". *Journal of Applied Statistics*, 31(3):345-360.
- Albers, W., Kallenberg, W. C. M., Nurdiati, S. (2006). "Data driven choice of control charts". *Journal of Statistical Planning and Inference*, 136(3):909-941.
- Amin, R. W., Reynolds, M. R. Jr., Bakir, S. (1995). "Nonparametric quality control charts based on the sign statistic". *Communication in Statistics - Theory and Methods*, 24(6):1597-1623.
- Bain, L. J., Engelhardt, M. (1992). *Introduction to probability and mathematical statistics*, 2nd edition, Duxbury Press.
- Bakir, S. T. (2004). "A distribution-free Shewhart quality control chart based on signed-ranks". *Quality Engineering*, 16(4):613-623.
- Balakrishnan, N., Read, C. B., Vidakovic, B. (2006). *Encyclopedia of Statistical Sciences*, 2nd edition. John Wiley.
- Balakrishnan, N., Koutras, M. V. (2002). *Runs and scans with applications*, John Wiley.
- Borror, C. M., Champ, C. W. (2001). "Phase I control charts for independent Bernoulli data". *Quality and Reliability Engineering International*, 17(5):391-396.
- Boyles, R. A. (2000). "Phase I analysis for autocorrelated processes". *Journal of Quality Technology*, 32(4):395-409.
- Bryce, G. R., Gaudard, M. A., Joiner, B. L. (1997). "Estimating the standard deviation for individuals control charts". *Quality Engineering*, 10(2):331-341.
- Casella, G., Berger, R. L. (2002). *Statistical inference*, 2nd edition. Duxbury.
- Chakraborti, S. (2000). "Run length, average run length and false alarm rate of Shewhart X-bar chart: Exact derivations by conditioning". *Communications in Statistics - Simulation and Computation*, 29(1):61-81.
- Chakraborti, S. (2006). "Parameter estimation and design considerations in prospective applications of the \bar{X} chart". *Journal of Applied Statistics*, 33(4):439-459.
- Chakraborti, S. (2007). "Run length distribution and percentiles: The Shewhart \bar{X} chart with unknown parameters". *Quality Engineering*, 19(2):119-127.

Chakraborti, S., Eryilmaz, S. A. (2007). "A nonparametric Shewhart-type signed-rank control chart based on runs". *Communications in Statistics- Simulation and Computation*, 36(2):335-356.

Chakraborti, S., Eryilmaz, S., Human S. W. (2009). "A phase II nonparametric control chart based on precedence statistics with runs-type signaling rules". *Computational Statistics and Data Analysis* 53(4):1054-1065.

Chakraborti, S., Graham, M. A. (2007). "Nonparametric control charts". *Encyclopedia of Quality and Reliability*, Volume 1:415-429, John Wiley.

Chakraborti, S., Human, S. (2006). "Parameter estimation and performance of the *p*-chart for attributes data". *IEEE Transactions on Reliability*, 55(3):559-566.

Chakraborti, S., Human, S. (2008). "Properties and performance of the *c*-chart for attributes data". *Journal of Applied Statistics*, 35(1):89-100.

Chakraborti, S., Human, S., Graham, M. A. (2009). "Phase I statistical process control charts: An overview and some results". *Quality Engineering*, 21(1):52-62.

Chakraborti, S., Van der Laan, P., Bakir, S. T. (2001). "Nonparametric control charts: An overview and some results". *Journal of Quality Technology*, 33(3):304-315.

Chakraborti, S., Van der Laan, P., Van de Wiel, M. A. (2004). "A class of distribution-free control charts". *Applied Statistics*, 53(3):443-462.

Champ, C. W., Chou, S. P. (2003). "Comparison of standard and individual limits Phase I Shewhart \bar{X} , *R*, and *S* charts". *Quality and Reliability Engineering International*, 19(2):161-170.

Champ, C. W., Jones, L. A. (2004). "Designing Phase I \bar{X} charts with small sample sizes". *Quality and Reliability Engineering International*, 20(5):497-510.

Chou, S. P., Champ, C. W. (1995). "A comparison of two Phase I control charts". *Proceedings of the Quality and Productivity Section of the American Statistical Association*, 31-35.

Crowder, S. W. (1987). "A simple method for studying run-length distributions of exponentially weighted moving average charts". *Technometrics*, 29(4):401-407.

Crowder, S. W. (1989). "Design of exponentially weighted moving average schemes". *Journal of Quality Technology*, 21(3):155-162.

Deming, W. E. (1986): *Out of the crisis*, Cambridge.

Derman, C., Ross, S. M. (1997). *Statistical aspects of quality control*, Academic Press.

Eisenhart, C., Hastay, M. W., Wallis, W. A. (1947). *Selected techniques of statistical analysis for scientific and industrial research and production and management engineering*, 1st edition, McGraw-Hill.

Farnum, N. R. (1994) *Modern statistical quality control and improvement*, Duxbury

Fu, J. C., Lou, W. Y. W. (2003). Distribution theory of runs and patterns and its applications: A finite Markov chain imbedding technique, World Scientific Publishing.

George, E. O., Bowman, D. (1995). “A full likelihood procedure for analyzing exchangeable binary data”. *Biometrics*, 51(2):512-523.

Gibbons, J. D., Chakraborti, S. (2003). *Nonparametric statistical inference*, 4th edition, Marcel Dekker.

Gupta, A. K., Nadarajah, S. (2004). *Handbook of beta distribution and its applications*, Marcel Dekker.

Hawkins, D. M. (1977). “Testing a sequence of observations for a shift in location”. *Journal of the American Statistical Association*, 72(357):180-186.

Hawkins, D. M., Olwell, D. H. (1998). *Cumulative sum charts and charting for quality improvement*, Springer.

Hawkins, D. M., Qiu, P., Kang, C. W. (2003). “The changepoint model for statistical process control”. *Journal of Quality Technology*, 35(4):355-366.

Hawkins, D. M., Zamba, K. D. (2005). “Statistical process control for shifts in mean or variance using a change-point formulation”. *Technometrics*, 47(2):164-173.

Hillier, F.S. (1969). “ \bar{X} and R chart control limits based on a small number of subgroups”. *Journal of Quality Technology*, 1(1):17-26.

Hogg, R. V., McKean, J. W., Craig, A. T. (2005). *Introduction to mathematical statistics*, 6th edition, Prentice Hall.

Human, S. W., Chakraborti, S., Smit, C. F. (2009). “Shewhart-type S^2 , S and R control charts for Phase I applications”. Technical Report 09/01, Department of Statistics, University of Pretoria, ISBN: 978-1-86854-735-7.

Human, S. W., Chakraborti, S., Smit, C. F. (2009). “Nonparametric Shewhart-type control charts with runs-type signaling rules”. Technical Report 09/02, Department of Statistics, University of Pretoria, ISBN: 978-1-86854-738-8

Human, S. W., Chakraborti, S., Smit, C. F. (Accepted). “Nonparametric Shewhart-type sign control charts based on runs”. *Communications in Statistics – Theory and Methods*.

Human, S. W., Chakraborti, S., Smit, C. F. (Submitted). “Design of S^2 , S and R control charts for Phase I application”. *Computational Statistics and Data Analysis*.

Human, S. W., Graham, M. A. (2007). “Average run lengths and operating characteristic curves”. *Encyclopedia of Quality and Reliability*, Volume 1:159-168, John Wiley.

Jensen, W. A., Jones-Farmer, L. A., Champ, C. W., Woodall, W. H. (2006). “Effects of parameter estimation on control chart properties: A literature review”. *Journal of Quality Technology*, 38(4):349-364.

Johnson, N. L., Kemp, A. W., Kotz, S. (2005). *Univariate discrete distributions*, 3rd edition, John Wiley.

Johnson, N. L., Kotz, S., Balakrishnan, N. (1994). *Continuous univariate distributions: Volume 1*, 2nd edition, John Wiley.

Johnson, N. L., Kotz, S., Balakrishnan, N. (1995). *Continuous univariate distributions: Volume 2*, 2nd edition, John Wiley.

Jones, L. A., Champ, C. W. (2002). "Phase I control charts for times between events". *Quality and Reliability Engineering International*, 18(6):479-488.

Jones, L. A., Champ, C. W., Rigdon, S. E. (2004). "The run length distribution of the CUSUM with estimated parameters". *Journal of Quality Technology*, 36(1):95-108.

King, E. P. (1954). "Probability limits for the average chart when process standards are unspecified". *Industrial Quality Control*, 10(6):62-64.

Klein, M. (2000). "Two alternatives to the Shewhart \bar{X} control chart". *Journal of Quality Technology*, 32(4):427-431.

Koning, A. J. (2006). "Model-based control charts in phase 1 statistical process control". *Statistica Neerlandica*, 60(3):327-338.

Kotz, S., Balakrishnan, N., Johnson, N. L. (2000). *Continuous multivariate distributions, Volume 1: Models and Applications*, 2nd edition, John Wiley.

Krishnan, M. (1967). "The noncentral bivariate chi distribution". *SIAM Review*, 9(4):708-714.

Lucas, J. M., Saccucci, M. S. (1990). "Exponentially weighted moving average control schemes: Properties and enhancements". *Technometrics*, 32(1):1-12.

Maragah, H. D., Woodall, W. H. (1992). "The effect of autocorrelation on retrospective X chart". *Journal of Statistical Computation and Simulation*, 40(1):29-42.

Mason, R. L., Young, J. C. (2002). *Multivariate statistical process control with industrial applications*, ASA-SIAM Series on Statistics and Applied Probability.

Mathcad®14.0. Parametric Technology Corporation.

Mathematica®. Wolfram Research.

Montgomery, D. C. (2001). *Introduction to statistical quality control*, 4th edition, John Wiley.

Montgomery, D. C. (2005). *Introduction to statistical quality control*, 5th edition, John Wiley.

Nedumaran, G., Pignatiello, J. J. (2005). "On constructing retrospective \bar{X} control chart limits". *Quality and Reliability Engineering International*, 21(1):81-89.

- Nelson, L. S. (1982). "Control charts for individual measurements", *Journal of Quality Technology*, 14(3):172-173.
- Nelson, P. R. (1982). "Multivariate normal and t distributions with $\rho_{jk} = \alpha_j \alpha_k$ ". *Communications in Statistics- Simulation and Computation*, 11(2):239-248.
- Nelson, L. S. (1984). "The Shewhart control chart-tests for special causes.". *Journal of Quality Technology*, 16(4):237-239.
- Nelson, P. R., Wludyka, P. S. Copeland, K. A. F. (2005): *The analysis of means: A graphical method for comparing means, rates and proportions*, ASA-SIAM Series on Statistics and Applied Probability.
- Patnaik, P. B. (1950). "The use of mean range as an estimator of variance in statistical tests". *Biometrika*, 37(1):78-87.
- Quesenberry, C. P. (1991). "SPC Q charts for start-up processes and short or long runs". *Journal of Quality Technology*, 23(3):213-224.
- Page, E. S. (1954). "Continuous inspection schemes". *Biometrika*, 41(1):100-115.
- Page, E. S. (1961). "Cumulative sum charts". *Technometrics*, 3(1):1-9.
- Radson, D., Boyd, A. H. (2005). "Graphical representation of run length distributions". *Quality Engineering*, 17(2):301-308.
- Rigdon, S. E., Cruthis, E. N., Champ, C. W. (1994). "Design strategies for individuals and moving range control charts". *Journal of Quality Technology*, 26(4):274-287.
- Roberts, S. W. (1959). "Control chart tests based on geometric moving averages". *Technometrics*, 1(3):239-250.
- Roes, K. T. C., Does, R. J. J. M., Schurink, Y. (1993). "Shewhart-type control charts for individual observations", *Journal of Quality Technology*, 25(3):188-198.
- Ruggeri, F., Kennett, R. S., Faltin, F. W. (2007). *Encyclopedia of statistics in quality and reliability*, John Wiley.
- Ryan, T. P. (1989). *Statistical methods for quality improvement*, 1st edition, John Wiley.
- Ryan, T. P. (2000). *Statistical methods for quality improvement*, 2nd edition, John Wiley.
- SAS®9.1 SAS Institute, Inc.
- Scientific WorkPlace® Mackichan Software, Inc
- Shewhart, W. A. *Economic control of quality of manufactured product*, 50th Anniversary, Commemorative Issue, Quality Press.

Shmueli, G. Cohen, A. (2003). "Run-length distribution or control charts with runs and scans rules". *Communications in Statistics – Theory and Methods*, 32(2):475-495.

Sullivan, J. H., Woodall, W. H. (1996). "A control chart for preliminary analysis of individual observations". *Journal of Quality Technology*, 28(3):265-278.

Woodall, W. H. (1997). "Control charts based on attribute data: Bibliography and review". *Journal of Quality Technology*, 29(2):172-183.

Woodall, W. H. (2000). "Controversies and contradictions in statistical process control" *Journal of Quality Technology*, 32(4):341-350.

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(1):9-16.

Zhang, C. W., Xie, M., Goh, T. N. (2006). "Design of exponential control charts using a sequential sampling scheme". *IEEE Transactions*, 38(12):1105-1116.