
STATISTICAL METHODS OF OPERATING PROCEDURE CONTROL

M.A. Smolyaninova

mariya200694@mail.ru

Bauman Moscow State Technical University, Moscow, Russian Federation

Abstract

The study examines a statistical method of operating procedure control using control charts, allowing us to visually reflect the course of the manufacturing process on the chart and identify violations of technology. We analyzed in detail the logic of the chart operation and the concepts of managed and unmanaged variability. We also investigated the problems and common errors in the construction, use and control charts analysis

Keywords

Control chart, variability, statistical methods, quality

© Bauman Moscow State Technical University, 2016

References

- [1] Mittag H.-J., Rinne H. Statistische methoden der qualitatssicherung. Munchen: Wien, 1993. (Russ. ed.: Statisticheskije metody obespecheniya kachestva. Moscow, Mashinostroenie Publ., 1995. 616 p.)
- [2] Wheeler D.J., Chambers D.S. Understanding statistical process control. Knoxville, 1992. (Russ. ed.: Statisticheskoe upravlenie protsessami. Optimizatsiya biznesa s ispol'zovaniem kontrol'nykh kart Shukharta. Moscow, Al'pinaBiznesBuku Publ., 2009. 409 p.)
- [3] Storm R. Wahrscheinlichkeitsrechnung. Mathematische statistik. Statistische qualitatkontrolle. Leipzig, Fachbuchverlag, 1974. 359 s. (Russ. ed.: Teoriya veroyatnostey. Matematicheskaya statistika. Statisticheskij kontrol' kachestva. Moscow, Mir Publ., 1970. 368 p.)

Smolyaninova M.A. — student of the Department of Metrology and interchangeability, Bauman Moscow State Technical University, Moscow, Russian Federation.

Scientific advisor — V.M. Korneeva, Dr. Sci. (Eng.), Professor of the Department of Metrology and interchangeability, Bauman Moscow State Technical University, Moscow, Russian Federation.
