Statistical methods for assessing the reliability of the enterprise logistic support control systems

© M.N. Zakharov, P.A. Nikolaev

Bauman Moscow State Technical University, Moscow, 105005, Russia

The article presents the methods for assessing the reliability of enterprise logistic support control systems. Analysis of the problems of logistic support system reliability is performed. The system reliability in the interaction with external suppliers as well as the reliability of the process of timely supply a company with materials is investigated.

Keywords: reliability of supply, inventory management system, the Monte Carlo method.

REFERENCES

[1] Sergeev V.I, Fedorenko A.I., Gerami V.D. Rol logistiki v razvitii transportnogo kompleksa RF: v razreze korrektirovki Transportnoj strategii RF na period do 2030 goda [The Role of Logistics in the Development of the Transport Complex of the Russian Federation: In the Context of Adjusting Transport Strategy up to 2030]. *Logistika i upravlenie tsepyami postavok – Logistics and Supply Chain Management*, 2012, no. 6.

[2] Sergeev V.I. *Korporativnaya logistika. 300 otvetov na voprosy professionalov* [Corporate Logistics. 300 Answers to the Questions of Professionals]. Moscow, INFRA-M Publ, 2005, 976 p.

[3] Kurnosov Yu.V., Konotopov P.Yu. *Analitika: metodologiya, tekhnologiya i organizatsiya informatsionno-analiticheskoy raboty* [Analytics: Methodology, Technology and Organization of Information and Analytical Work]. Moscow, RUSAKI Publ., 2004, 512 p.

[4] Savelova T.I. *Metod Monte-Karlo*: Uchebnoe posobie [Monte Carlo Method: Tutorial]. Moscow, National Research Nuclear University "MEPhI" Publ., 2011, 152 p.

[5] Schreibfeder J. *Achieving Effective Inventory Management*. 2nd ed. Effective Inventory Management inc. Publ., 2000, 247 p. [In Russ.: Shribfeder J. Effektivnoe upravlenie zapasami. 2-e izd. Moscow, Alpina Biznes Buks Publ., 2006, 304 p.].

Zakharov M.N., Dr. Sci. (Eng.), Head of the Department of Machine Parts, Bauman Moscow State Technical University. e-mail: zmn@bmstu.ru

Nikolaev P.A., postgraduate student (Ph.D.), Department of Industrial Logistics, Bauman Moscow State Technical University. e-mail: nikolaevpa@bmstu.ru