

## References

### P. 5 – 9. G. A. Bolshanin, L. Yu. Bolshanina. Two-wire power line measurements on a flat section

1. Fajbisovich V. A. *Opređenje parametrov električeskikh sistem: Novye metody eksperimentalnogo opređenija* [Electrical systems parameters measurement: new methods for experimental determination], Moscow, Energoizdat, 1982.
2. Melnikov N. A., Rokotjan S. S., Sherentsis A. N. *Proektirovanie električeskoj časti vozdušnoj linii elektropredachi 330–500 kV* [Design of electrical part for overhead power lines 330–500 kV], Moscow, Energija, 1974.
3. Youssef O. A. S. A fundamental digital approach to impedance relays, *IEEE Trans. Power. Deliv.*, 1992, vol. 7, issue 4, pp. 1861–1866.
4. Elkateb M. M. Seen impedance by impedance type relays during power system sequential disturbances, *IEEE Trans. Power. Deliv.*, 1992, vol. 7, issue 4, pp. 1946–1952.
5. Duggan E. New technique is developed to determine harmonic impedance, *Transmiss. and Distrib. Int.*, 1992, vol. 3, issue 2, pp. 32, 34.
6. Bolatka J. Pridavne ztrati v elektriza ni soustav vlivem frekven ni zavislosti pasivnich odporu, *Bull. EGU*, 1986, no. 97, pp. 48–56.
7. Bergeal J. Analysis of the spectrum impedance of a network use of digital, *CIREĐ 1983: 7<sup>th</sup> Int. Conf. Elec. Distrieb. Liege, 25–29 Apr.* 1983, pt. 1, Liege, 1983.
8. Krotkov I. N. *Točnyje izmerenija električeskoj emkosti i induktivnosti. Skhemy, metody, etalony* [Accurate measurements of electrical capacitance and inductance. Circuits, methods, standards], Moscow, Standartizdat, 1966.
9. Kuznetsov F. N. Elektricheskie parametry stalealjuminiyevykh provodov na promyshlennoj častote i na vysokikh [Electrical parameters of steel-aluminum wires with power frequency], *Izvestia AN SSSR. Energetika i transport*, 1968, no. 3, pp. 33–46.
10. Patent RU #2334990 MKI G 01 R 25/00 *Sposob opređenija tekuschikh pervichnykh i vtorichnykh parametrov linii elektropredachi dlja postroenija ee prjamoj G-obraznoj adaptivnoj modeli* [The determination method for primary and secondary parameters of a power line and its straight G-shaped adaptive model], by D. V. Dzhumik, E. I. Goldshtejn. Published on 8 of May 2007.
11. Patent RU #2334990 MKI G 01 R 25/00 *Sposob opređenija tekuschikh parametrov linii elektropredachi dlja postroenija ee prjamoj P-obraznoj adaptivnoj modeli (varianty)* [The determination method for power line parameters of a power line and its straight P-shaped adaptive model], by D. V. Dzhumik, E. I. Goldshtejn. Published on 19 of February 2007.
12. Bolshanin G. A. *Raspređenje električeskoj energii po učastkam elektroenergetičeskikh sistem* [Electrical energy distribution in power systems], Bratsk, BrGU, 2006.
13. Bolshanin G. A. *Raspređenje električeskoj energii ponizhennogo kachestva po učastkam elektroenergetičeskikh sistem* [Low quality electrical energy distribution through power systems], *Bratsk State University. Natural and engineering sciences*, 2006, no. 2, pp. 129–140.
14. Bolshanin G. A., Bolshanina L. Yu., Marjasova E. G. *Osobennosti rasprostranenia električeskoj energii po mnogoprovodnym linijam elektropredachi* [Electrical energy distribution via multi-wire power lines], *Bratsk State University. Natural and engineering sciences*, 2011, no. 2, pp. 38–43.
15. Bolshanin G. A. *Raspređenje električeskoj energii ponizhennogo kachestva po trekhfaznoj magistralnoj linii elektropredachi trekhprovodnogo ispolnenija* [Low quality electrical energy distribution through three-phase three-wired power lines], *Bulletin of Izhevsk STU*, 2008, no. 3 (39), pp. 130–134.
16. Gerasimov V. G. et al. (ed.). *Electrical Engineering Handbook*, vol. 3: Generation, transmission and distribution of electric energy, Moscow, MPEI, 2004.

### P. 10 – 15. I. I. Livshits. Combined audit methodology for effective industrial energy management systems

1. The ISO Survey of Management System Standard Certifications 2013.
2. ISO 50001:2011. Energy management systems. Requirements with guidance for use.
3. Karpenko S. M., Dyomin A. A. *K voprosu povyšenia effektivnosti upravlenija energosberezheniem na promyshlennykh predpriyatijakh* [On the question of energy management effectiveness increasing at industrial enterprises], *Energobezopasnost' i energosberezhenie*, 2014, no. 4, pp. 10–15.
4. Livshits I. I., Tanatarova A. T. *Tsennost vnutrennikh auditov integrirovannoj sistemy menedzhmenta dlja provedenija rezul'tativnogo analiza so storony rukovodstva* [Importance of integrated management system internal audits for effective management], *Standarty i kachestvo*, 2014, no. 8.
5. Fitts-Ents Ya. *Rentabelnost investitsij v personal. Izmerenie ekonomičeskoj tsennosti personala* [Benefits of investment into staff. Measuring of staff economic value], Moscow, Vershina, 2006.
6. Hammer M., Champi D. *Reinzhiniring korporatsii. Manifest revoljutsii v biznese* [Reengineering the Corporation. A Manifesto for business revolution], Moscow, Mann, Ivanov i Ferber, 2005.

7. PAS-99:2012. *Specification of common management system requirements as a framework for integration.*

8 GOST R ISO 19011:2011. *Rukovodjaschie ukazania po provedeniju auditov sistem menedzhmenta* [Guidelines for management systems audits].

9. GOST R ISO/MEK 27001-2006. *Informatsionnaja tekhnologija. Metody i sredstva obespechenia bezopasnosti. Sistemy menedzhmenta informatsionnoj bezopasnosti. Trebovania* [Information technology. Methods and tools of safety. Information security management systems. Requirements].

**P. 16 – 21. T. P. Salikhov, M. B. Khudayarov. Methodology of building energy consumption management for social sector objects**

1. Salikhov T. P., Khudayarov M. B. *Matematicheskie modeli i sredstva dlja monitoringa energopotreblenja zdania* [Mathematical models and tools to monitor buildings energy consumption], *Problemy informatiki i energetiki*, 2013, no. 1–2, pp. 72–79.

2. Gnatjuk V. I. *Zakon optimalnogo postroenia tekhnotsenzov* [Technocenosis development], *Tsenologicheskie issledovaniya*, no. 29, Moscow, TGU, 2005.

3. Salikhov T. P., Khudayarov M. B. *Informatsionnaja sistema monitoringa energopotreblenja zdania. Svidetelstvo ob ofitsialnoj registratsii programmy dlja EVM DGU 02933 ot 18.12.2014* [Information system for building energy consumption monitoring], Tashkent: Agency on Intellectual Property of Uzbekistan.

4. Salikhov T. P., Khudayarov M. B. *Komplex programm dlja upravlenija energopotreblenijem zdaniy. Svidetelstvo ob ofitsialnoj registratsii programmy dlja EVM DGU 02937 ot 26.12.2014* [Software package for buildings energy management], Tashkent: Agency on Intellectual Property of Uzbekistan.

**P. 22 – 27. G. G. Grebenyuk, S. P. Kovalyov, A. A. Krygin, L. A. Sereda. Energy management and energy consumption planning for households**

1. Bondarenko I. A. *Domokhozjajstvennaja sistema v strukture ekonomicheskikh porjadkov* [The household system in the economic structure], *Problemy sovremennoj ekonomiki*, 2008, no. 4 (28).

2. Ithal A. M., Rajamani H. S., Abd-Alhameed R. A., Jalboub M. K. The Generation of Electric Load Profiles in the UK Domestic Buildings through Statistical Predictions, *Journal of Energy and Power Engineering*, 2012, vol. 6, no. 2, pp. 250–258.

3. Kiichiro Tsuji, Fuminori Sano, Tsuyoshi Ueno, Osamu Saeki. Bottom-Up Simulation Model for Estimating End-Use Energy Demand Profiles in Residential Houses, *ACEEE buildings Conference proceedings*, 2004, panel 2, paper book, pp. 342–355.

4. Dickert J., Schegner P. Residential Load Models for Network Planning Purposes, *Modern Electric Power Systems (MEPS), Proceedings of the International Symposium, 2010*. Available at: [www.ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6007169](http://www.ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6007169) (accessed 7 April 2015).

5. Paatero J. V., Lund P. D. A model for generating household electricity load profiles, *International Journal of Energy Research*, 2006, vol. 30, no. 5, pp. 273–290.

6. Armstrong M. M., Swinton M. C., Ribberink H., Beausoleil-Morrison I., Millette J. Synthetically Derived Profiles for Representing Occupant-Driven Electric Loads in Canadian Housing, *Journal of Building Performance Simulation*, 2009, vol. 2, no. 1, pp. 15–30.

**P. 28 – 30. I. R. Baykov, S. V. Kitaev, Sh. Z. Fayrushin. Diagnostics of reciprocating compressors' technical conditions**

1. Baykov I. R., Kitaev S. V., Shammazov I. A. *Metody povyshenija energeticheskoy effektivnosti truboprovodnogo transporta prirodnoy gaza* [Improving methods for energy efficiency of natural gas pipeline transportation], Saint Petersburg, Nedra, 2008.

2. Baykov I. R., Kitaev S. V., Smorodov E. A., Goljanov A. I. *Utochnenie metodiki opredelenija tekhnicheskogo sostojanija gazoperekachivajuschih agregatov* [The advanced methodology for determining of gas pumping machines technical condition], *Izvestia vuzov. Problemy energetiki*, 2001, no. 3–4, pp. 3–6.

3. Frenkel M. I. *Porshnevye kompressory* [Reciprocating compressors], Leningrad, Mashinostroenie, 1969.

4. Plastinin P. I. *Porshnevye kompressory* [Reciprocating compressors], vol. 1: The Theory and the Calculation, Moscow, KolosS, 2006.

5. Schultheis S. M., Lickteig C. A., Parchewsky R. Reciprocating compressor condition monitoring, *Proc. of the 36<sup>th</sup> Turbomachinery Symposium. College Station, TX, September 2007*, pp. 10–13.

6. Kostjakov V. N., Naumenko A. P. *Analiz sovremennykh metodov i sredstv monitoringa i diagnostiki porshnevnykh kompressorov. Sistemy 'real-time' monitoringa* [Analysis of modern methods and tools for monitoring and diagnostics of reciprocating compressors: Real-time system monitoring], *V mire nerazrushajushchego kontrolja*, 2010, no. 1 (47), pp. 64–70.

**Р. 31 – 33. O. V. Kobzisty, P. I. Klischenko, D. A. Bazhanov. A reverse current and zero current compensation method**

1. Serdeshnov A., Protosovitskij I., Leus Ju., Shumra P. Simmetrirujuschee ustrojstvo dlja transformatorov. Sredstvo stabilizatsii naprjazhenia i snizhenia poter v setjakh 0,4 kV [The balun device for transformers. Tools of voltage stabilization and losses reduction in a 0,4 kV circuit], *Novosti elektrotehniki*, 2005, no. 1. Available at: [www.news.elteh.ru/arh/2005/31/14.php](http://www.news.elteh.ru/arh/2005/31/14.php) (accessed 7 April 2015).

2. Kosoukhov F. D., Naumov I. V. *Nesimmetria naprjazhenij i tokov v selskikh raspredelitelnykh setjakh* [Asymmetry of voltages and currents in rural distribution networks], Irkutsk, IDP, 2003.

3. Gitgarts D. A., Mnukhin L. A. *Simmetrirujuschie ustrojstva dlja odnofaznykh elektrotermicheskikh ustanovok* [Baluns for single electrical-thermal installations], Moscow, Energija, 1974.