

СПИСОК ВИКОРИСТАНОЇ ЛІТЕРАТУРИ

1. Ray P. Stratford. Harmonic pollution on power systems-a change in philosophy, IEEE Transactions on Industry Applications, Vol.16, No. 5, 1980, p. 617 – 623.
2. G. J. Wakileh. Power System Harmonics, fundamentals, analysis and filter design, Springer, Berlin Heidelberg, 2001.
3. J. Arrillaga, N. R. Watso. Power System Harmonics, second edition, John Wiley & Sons, Ltd. 2003.
4. W. M. Grady, S. Santoso. Understanding power system harmonics, IEEE Power Engineering Review, Vol. 21, No.11, 2001 p. 8-11.
5. IEEE Recommended practices and requirements for harmonic control in electric power systems, Standard, IEEE 519, IEEE, New York.
6. Electromagnetic Compatibility (EMC)-Part 3, IEC1000-3-2, 1995.
7. Assessment of emission limits for distorting loads in MV and HV power systems, IEC 1000-3-6, 1996.
8. Voltage characteristics of electricity supplied by public distribution systems, European Standard EN 50160, 1999.
9. IEEE standard for monitoring electric power quality, Standard, IEEE 1159, 1995.
10. J. K. Phipps. A transfer function approach to harmonic filter design, IEEE Industrial Applications Magazine, Vol. 3, No. 2, 1997, p. 68-82.
11. M. F. McGranagham, D. R. Mueller. Designing harmonic filters for adjustable speed drives to comply with IEEE 519 harmonic limits, IEEE Industrial Applications Magazine, Vol. 35, No. 2, 1999, p. 312-318.
12. W. Mielczarski, W.B. Lawrance, J. Szczepanik. Field test of a filter to reduce harmonic currents in a three phase fluorescent lamp system, IEEE Transactions on Power Delivery. Vol. 14, No. 3, 1999, p. 1002-1007.
13. F. Z. Peng. Application issues of active power filters, IEEE Industrial Applications Magazine, Vol. 4, No. 5, 1998, p. 21-30.

14. T. Thomas, K. Haddad, G. Joos and A. Jaafari. Design and performance of active power filters, *IEEE Industrial Applications Magazine*, Vol. 4, No. 5, 1998, p. 38-46.
15. S. Bhattacharya, T. M. Frank, D. M. Divan, B. Banerjee. Active filter system implementation, *IEEE Industrial Applications Magazine*, Vol. 4, No. 5, 1998, p. 47- 63.
16. S. Buso, L. Malesani, P. Mattavelli, R. Veronese. Design and fully digital control of parallel active filters for thyristor rectifiers to comply with IEC-1000-3-3 standards, *IEEE Transactions on Industry Applications*, Vol.34, No. 3, 1998, p. 508-517.
17. S. Leng, W. Liu, I. Chung, D. A. Cartes. Active power filter for three-phase current harmonic cancellation and reactive power compensation, *American Control Conference*, St Louis, Missouri, USA, June 2009.
18. A.H. Bhat, P. Agarwal. Three-phase, power quality improvement ac/dc converters, *Electric Power Systems Research*, Volume 78, Issue 2, February 2008.
19. H. Mao, C. Fred, Y. Lee, D. Boroyevich, S. Hiti. Review of high-performance three-phase power-factor correction circuits, *IEEE Transactions on Industrial Electronics*, Vol. 44 No. 4, 1997, p. 437-446.
20. M.P. Kazmierkowski, L. Malesani. Current control techniques for three phase voltage source PWM converters: a survey, *IEEE Transactions on Industrial Electronics*, Vol. 45 No. 5, 1998, p. 691-703.
21. H.F. Bilgin, K.N. Kose, G. Zenginobuz, M. Ermis, E. Nalcaci, I. Cadirci, H. Kose. A unity power factor buck type PWM rectifier for medium/high power dc motor drive applications, *IEEE Transactions on Industry Applications*, Vol.38, No. 5, 2002, p. 1412-1425.
22. M. Malinowski, M. P. Kazmierkowski, A. M. Trzynadlowski. A comparative study of control techniques for PWM rectifiers in AC adjustable speed drives, *IEEE Transactions on Power Electronics*, Vol. 18 No. 6, 2003, p. 1390-1396.

23. B. Singh, B. N. Singh, A. Chandra, K. Al-Haddad, A. Pandet, D. P. Kothari. A review of three-phase improved power quality ac-dc converters, *IEEE Transactions on Industrial Electronics*, Vol. 51 No. 3, 2004, p. 641-660.
24. J. R. Rodriguez, J. Pontt, C. Silva, E. P. Wiechmann, P. W. Hammond, F. W. Santucci, Alvarez, R. Musalem, S. Kouro, P. Lezana. Large current rectifiers: state of the art and future trends, *IEEE Transactions on Industrial Electronics*, Vol. 52, No. 3, 2005, p. 738-746.
25. J. W. Dixon, J. M. Contardo and L. A. Moran. A fuzzy-controlled active front-end rectifier with current harmonic filtering characteristics and minimum sensing variables, *IEEE Transactions on Power Electronics*, Vol. 14, NO. 4, 1999, p. 724-729.
26. S. Leng, I. Chung, W. Liu and D. A. Cartes. Reconfigurable active front-end of adjustable speed drives for power quality improvement, *IEEE Power & Energy Society General Meeting*, Calgary, Alberta Canada, July 2009.
27. H. V. Luu, A. Punzet, V. Muller and N. L. Phung. Control of front-end converter with shunt active filter using adaptive gain, *European Conference on Power Electronics and Applications*, Dresden, Germany, September 2005.
28. Regenerative AC Drives URL
http://irtfweb.ifa.hawaii.edu/~tcs3/tcs3/Misc/CFHT/Dome_drive_upgrade/Drive%20education/Understanding%20Regeneration.pdf (Дата звернення: 25.04.2018).
29. Malesani, L., Tenti, P. "A novel hysteresis control method for current controlled VSI PWM inverters with constant modulation frequency", vol.26, p.88-92, Jan./Feb. 1990
30. Malesani, L., Mattavelli, P., and Tomasin, P. "Improved constant frequency hysteresis current control of VSI inverters with simple feedforward bandwidth prediction ", Orlando, FL, p.2633-2640, Oct. 1995.
31. R. Uhrin, F. Profumo. "Stand alone AC/DC converter for multiple inverter applications," *Power Electronics Specialists Conference*, 1996. PESC '96 Record, 27th Annual IEEE, Vol. 1, 23-27 June 1996, p. 120 – 126.

32. А.В. Карасев, В.М. Смирнов. Некоторые особенности управления трехфазным выпрямителем с коррекцией коэффициента мощности.
33. Juan W. Dixon, Ph. D. Power Electronics Handbook. Chapter 12: Three-phase Controlled Rectifiers, Third Edition, ACADEMIC PRESS, p. 205 – 247
34. Пересада С. М., Король С. В.. «Новая концепция управления входным преобразователем: формирование полной энергии преобразования». Технічна електродинаміка. Тематичний випуск „Силова електроніка та енергоефективність”. 2002. Ч. 1. с. 66 – 70
35. Kömürçügil H., Kükrer O.. Lyapunov-Based Control for Three-Phase PWM AC/DC Voltage-Source Converters. IEEE Trans. Power Electronics. September 1998. vol. 13. no. 5. p. 801 – 813
36. Ortega R., Loria A., Nicklasson P.J., Sira-Ramires H.. “Passivity-based Control of Euler-Lagrange Systems”. New York, USA: Springer Verlag. 1998. P. 543.
37. M. Montanari; S. Peresada; A. Tilli; A. Tonielli, Conference Record of the 2000 IEEE Industry Applications Conference. Thirty-Fifth IAS Annual Meeting and World Conference on Industrial Applications of Electrical Energy (Cat. No.00CH37129)
38. Электродвигатель АИР132М2 (АИР 132 М2) 11 кВт 3000 об/мин URL: <https://systemax.com.ua/p22564070-elektrodivigatel-air132m2-air.html> (Дата звернення: 25.04.2018).
39. ABB ACS800-11 (5.5kW to 110kW) & ACS800-U11 Drives (7.5Hp to 125Hp) Hardware Manual, URL: <https://www.clrwtr.com/UserFiles/CT/Documents/ABB-Drives/ABB-ACS800-11-ACS800-U11.pdf> (дата звернення: 22.05.2018).