Chapter 10
Bibliography

CHAPTER 1

[1]. Moltgen, G., (1972) "Line commutated thyristor converters", Pitman, London.
[2]. Fransua, Al., Magureanu, R., (1984), "Electrical Machines and Drive Systems", Technical Press, Oxford.
[3]. Golovanov, C. Albu Coordonatori, M. (2001) "Probleme moderne de masurare in electroenergetica" (Translated)
[4]Verdelho, P. Marques, G. D. (1998). "Four-Wire Current Regulated PWM Voltage Converter", IEEE Transactions on Industrial Electronics, Vol. 45, No. 5.
[5]. Afonso, J. Couto, C. Martines, J. (2000) "Active Filter with Control Based on the p-q Theory", IEEE Industrial Electronics Society Newsletter, Vol. 47, No. 3.
[6]. Dixon, J. W. Venegas, G. Moran, L. A. (1997) "A Series Active Power Filter Based on a Sinusoidal Current-Controlled Voltage-Source Inverter, IEEE Transactions on Industrial Electronics, Vol 44, No5.
[7]. Akagi, Y. Kanazawa, Nabae, A. (1983) "Generalized Theory of the Instantaneous Reactive Power in Three-Phase Circuits", IPEC'83 – Int. Power Electronics Conf., Tokyo, Japan.
[8]]. Magureanu R., Ambrosii S., Creanga D., Staicu C., Radut V. (2002) "Unity power factor rectifiers and active power filters for industrial applications", Proceedings – National Conference on Electrical Drives, Galati.
[9]. Abellan, A. Benavent, J. M. (2001). "A New Combined Control Method for Shunt Active Filters applied to Four-Wire Power Systems", EPE 2001 – Graz.
[10]. Adam D¹browski+, Krzysztof Sozañski# : "Control Circuit for Active Power Harmonic-Compensation Filter in Power Systems – Realized with Digital Signal Processor TMS320C50" White paper.
[11]. Wajiha Shireen, Li Tao and M S Arefeen: Implementation of a dsp based active power filter for electric power distribution systems supplying nonlinear loads
[12]. G. Capwell: Interfacing external memory to the TMS320C5x DSK, Designer's Notebook, Texas Instruments, No 65, 10/1995
[13]. MATLAB® R13/R14: DOCUMENTATION CD — The Mathworks Inc.
[14]. Using MATLAB7: User Guide — The Mathworks Inc.
[15]. Using SIMULINK5: User Guide — The Mathworks Inc.
[16]. Creating Graphical User Interfaces(Version 6) — The Mathworks Inc.
[17]. Website: WWW.MATHWORKS.COM
[18]. Code Composer Studio v3.0 for TMDS320006X Series of DSP Processors. Texas Instruments.
[19]. ccslink (MATLAB link for CCSv3.0 DSP) — The Mathworks Inc.
[20]. C6711 DSP Starter Kit (DSK)- TMDS320006711 — Texas Instruments.
[21]. SIGNALWARE AED-102 Multi-Channel Process Control Analog Expansion Daughterboard

[22]. 5k--6K Interface Board EVM Texas Instruments.
[23]. TVL2553/56 EVM Board for TMDS32006X DSP processors. Texas Instruments.
[24]. TLV5614-10-30 EVM module for TMDS32006X DSP processors. Texas Instruments.
[25]. www.ti.com
[26]. www.researchindex.com - contains updates of research taking place in the world.
[27]. www.internationalrectifier.com
[28]. www.philips.com
[29]. www.motorola.com

Chapter 2

[1] Mauricio Aredes and Jurgen Hafner. Three-phase four-wire shunt active filter control strategies IEEE Trans, Power Electron, 12, 1997 pp.311-318

[2] Zhuofang, Yangjun . The main circuit topology and control of three-phase four-wire active power filter. New technology of electrician and electrical energy . 2000, 2:1-6

[3] K.M.Smedley and S.Cuk. One cycle control of switching converters. IEEE PESC'91, pp.1173-1180

[4] K.M.Smedley and S.Cuk. Dynamics of One cycle controlled Cuk converters. IEEE Trans, Power Electron, 10, 1995, pp.634-639

[5] K.Mark Smith and Zheren Lai. A new PWM controller with one cycle response. IEEE Trans, Power Electron, 14, 1999, pp.142-150

[6] zhou lin, jiang jianwen1 and zhou xiaojun: "Three-phase four-wire active power filter with unified constant-frequency integration control"
Power Systems and Communications Infrastructures for the future, Beijing, September 2002

[7] H. Akagi, "New Trends in Active Filters for Power Conditioning", IEEE Trans. Ind. Appl. 1996, 32, (6), pp. 1312-1322.

[8] S. J. Huang and J. C. Wu, "A Control Algorithm for Three-Phase Three-Wired Active Power Filters under non-Linear Mains Voltages", IEEE Trans. Power Electron., 1993, 14, (4), pp. 753-760.

[9] P. Verdelho and G. D. Marques, "An Active Power Filter and Unbalanced Current Compensator", IEEE Trans. Ind. Electron., 1997, 44, (3), pp. 321-328.

[10] G. Y. Jeong, T. J. Park and B. H. Kwon, "Line-Voltage-Sensor less Active Power Filter for Reactive Power Compensation", IEE Proc. Power Appl. Vol. 147, no. 5, 2000.
Rev. Energ. Ren. : Power Engineering (2001) 77-84

[11] A Novel Three-Phase Active Power Filter
K. H. Yiauw and M. S. Khanniche

[12] R. Wu, S. Dewan and G. Slemon, "A PWM ac to dc Converter with Fixed Switching Frequency", IEEE Trans. Ind. Appl., 1990 vol. 26, no. 5, pp. 880-885.

[13] L. A. Moron, J. W. Dixon and R.R. Wallace, "A. Three-Phase Active Power Filter Operating with Fixed Switching Frequency for Reactive Power and Current Harmonic Compensation", IEEE Transactions on industrial electronics, Vol.42, No.4, August 1995, pp.402-407.

[14] T. M. Gruzs, "Uncertainties in Compliance with Harmonic Current Distortion Limits in Electric Power Systems", IEEE Trans. Ind. Appl. Vol. 27, no. 4, 1991.

[15]. M. Kazerani, P. D. Ziogas and G. Joos, "A Novel Active Current Waveshaping Technique for Solid-State Input Power Factor Conditioners", IEEE Trans. Ind. Electron., vol. 38, no. 1, pp. 72-78, 1991.

[16] ENJETI, P. N.SHIREEN, W.PACKEBUSH, P.PITEL,I. J. : Analysis and Design of a New Active Power Filter to Cancel Neutral Current Harmonics in Three-Phase Four Wire Electric Distribution Systems, IEE Trans. Ind. Appl, Vol. 30, No. 6, Nov/Dec. 1994, 1565-1572.
[17] QUIN, C. A.|MOHAN, N. : Active Filtering Harmonic Currents in Three-Phase Four-Wire Systems with Three-Phase and Single Non-Linear Loads, IEE-APEC'92, Appl. Power Electronics Conf, 1992, 829-836.
[18] QUIN, C. A.MOHAN, N.MELITA, H.: A Four-Wire Current Controlled Converter Provides Harmonic Neutralization in Three-Phase-Four Wire Systems, IEE-Apec'93 Appli. Power Electronics Conf, 1993, 841-846.
[19]. BHAVARAJU, V. B.ENJETTI, P. N. : An Active Line Conditioner to Balance Voltage in a Three-Phase System, IEEE Transaction on IA 32, 1996, 287-292.
[20] ROPPER, R. D. LEEDHAM, P. J. : A Review of the Causes and Effects of Distribution System Three-phases Unbalance, IEE Conference on Sources and Effects of Power System Disturbances, No. 10, 1974, 147-152.
[21] MILLER, T. J. E. : Reactive Power Control in Electric Systems, John Willey & Sons, New-York, 1982.
[22] VERDELHO, P.MARQUES, G. : An Active Power Filter and Unbalanced Current Compensator, IEEE Trans. Ind. Electron- ics, Vol. 44, No. 3, June 1997, 321-328.
[23] SINGH, B.A-HADDAD, K.|CHANDRA, A. : Active Power Filter for Harmonics and Reactive power, Compensation in Three-Phase, Four-Wire System Supplying Non-Linear Loads, ETEP-Eur. Trans. Elec. Power Eng, Vol. 8, No 2, March/April 1998, 139-145.
[24] MORAN, L.MORA, E.WALLACE, R.|DIXON, Y. J.: Performance Analysis of Power Factor Compensator which Si- multaneously Eliminates Lines Current Harmonics, IEEE Power Electronics Specialist Conference, PESC'92, Toledo, Espana.
[25] Abdelaziz Chaghi , Amor guetta_ Azzedine benoudjit : Four legged active power filter compensation for a utility distribution system" Journal of Electrical Engineering, vol. 55, no. 1-2, 2004, 31-35
[26] H. Akagi, "New trends in active filters for power conditioning," IEEE Trans. Ind. Appl., vol. 32, no. 6, pp. 1312-1322, 1996
[27] K. Oku, 0. Nakamura and K. Uemura, "Measurement and analysis of harmonics in power distribution systems, and development of a harmonic suppression method," IEE of Japan trans, vol. 114-B, no. 3, pp. 234-241, 1994 (in Japanese)- Translated
[28] K. Oku, 0. Nakamura, J. Inoue and M. Kohata, "Suppression effects of active filter on harmonics in a power distribution system including capacitors," IEE of Japan trans, vol. 1158, no. 9, pp. 1023-1028, 1995 (in Japanese)- Translated
[29] H. Akagi, "Control strategy and site selection of a shunt active filter for damping of harmonic propagation in power distribution systems," IEEE Trans. Power Delivery, vol. 12, no. 1, pp. 354-363, 1997
[30] M. Takeda, K. Ikeda and Y. Tominaga, "Harmonic current compensation with active filter", in Proceedings of the 1987 IEEE/IAS Annual Meeting, pp. 808-815, 1987
[31] F. Z. Peng, H. Akagi and A. Nabae, "A new approach to harmonic compensation in power systems-A combined system of shunt passive and series active filters," IEEE Transactions. Ind. Appl.,vol. 26, no. 6, pp. 983-990, 1990
[32] H. Fujita and H. Akagi, "A practical approach to harmonic compensation in power systems-Series connection of passive and active filters," IEEE Transactions Ind. Appl., vol. 27, no. 6, pp. 1020- 1025, 1991

[33] 'Ihkahashi, S. G. Li and Y. Omura, "Low price and high power active filter," in Proceedings of the 1991 IEEJ-IAS Annual Meeting, pp. 95-98, 1991
[34] LE, M. Pereira, K. Rem and G. Vaupel, "Active damping of resonances in power systems," IEEE Transactions Power Deliv., vol. 9, no. 2, pp. 1001-1008, 1994
[35] Bhattacharya, P. T. Cheng and D. M. Divan, "Hybrid Solutions for Improving Passive Filter Performance in High Power Applications," IEEE Itam. Ind. Appl., vol. 33, no. 3, pp. 732-747, 1997
[36] J. Haker, M. Aredes and K. Heumann, "A shunt active power filter applied to high voltage distribution lines," IEEE %m. Power Deliv., vol. 12, no. 1, pp, 266 - 272, 1997
[37] Hideaki Fujita, Takahiro Yamasaki, and Hirofumi Akagi,: "A Hybrid Active Filter for Damping of Harmonic Resonance in Industrial Power Systems", 1998
[38] H. Sasaki and T. Machida, "A new method to eliminate ac harmonic currents by magnetic compensation-Considerations on basic design," IEEE Trans. Power Appl. Syst., vol. 90, no. 5, p. 2009, 1971.
[39] L. Gyugyi and E. C. Strycula, "Active ac power filters," is presented at IEEE/IAS Ann. Meeting, 1976, pp. 529.
[40] N. Mohan et al., "Active filters for ac harmonic suppression," presented at IEEE/PES Winter Meeting, A77 026-8, 1977.
[41] H. Kawahira, T. Nakamura, and S. Nakazawa, "Active power filters," in Proc. JIEE 9IPEC-Tokyo, 1983, pp. 981.
[42] H. Akagi, A. Nabae, and S. Atoh, "Control strategy of active power filters using multiple voltage-source PWM converters," IEEE Trans. Ind. Appl., vol. IA-22, no. 3, pp. 460, May/June 1986.
[43] K. Komatsugi and T. Imura, "Harmonic current compensator composed of static power converter," presented at IEEE Power Electronics Specialist Conf., 1986, pp. 283.
[44] M. Takeda et al., "Harmonic Current Compensation with Active Filter," presented at IEEE-IIAS Ann. Meeting, pp. 808, 1987.
[45] A. Nakajima et al., "Development of Active Filter with Series Resonant Circuit" presented at IEEE Power Electronics Specialist Conf., pp. 1168, 1988.
[46] M. Kohata et al., "Compensator for harmonics and reactive power using static induction thyristors," presented at European Conf. on Power Electronics and Applications, 1987.
[47] F. Z. Peng, H. Akagi, and A. Nabae, "Some considerations on an active power filter using quad-series voltage source PWM converters," JIEE PE-86.154, 1986, (Translated- Japanese).
[48] F. Z. Peng, H. Akagi, and A. Nabae, "A study of active power filter using quad-series voltage-source PWM converters for harmonic compensation," presented at IEEE Power Electronics Specialist Conf.,
[49] Y . Tanoue, F. Aoyama, and K. Terashima, "5-MVA flicker suppression equipment-A hybrid system of a passive filter and an active filter using GTO thyristors," Toshiba Rev., vol. 43, no. 4, 1988.
[50] H. Akagi, Y. Kanazawa, and A. Nabae, "Instantaneous reactive power compensators comprising switching devices without energy storage components," IEEE Trans. Ind. Appl., vol. IA-20, pp, 625, 1984.
[51]. Fang Pang, Akagi and Anbae:"A New Approach to Harmonic Compensation in Power Systems-A Combined System of Shunt Passive and Series Active Filters
IEEE transactions on industry applications. vol. 26. no. 6. November/December 1990
983-990

[51]. Fang Pang, Akagi and Anbae:"A New Approach to Harmonic Compensation in Power Systems-A Combined System of Shunt Passive and Series Active Filters
IEEE transactions on industry applications. vol. 26. no. 6. November/December 1990 983-990
[52]. Hideaki Fujita, Member, IEEE, and Hirofumi Akagi, Fellow, IEEE: "The Unified Power Quality Conditioner: The Integration of Series Active Filters and Shunt Active Filters" 0-7803-3500-7/96 1996 IEEE 494-501
[53] H. Akagi, "New trends in active filters for power conditioning," IEEE Trans. Ind. Applicat., vol. 32, no. 6, pp. 1312–1322, 1996.
[54] S. Moran, "A line voltage regulator/conditioner for harmonic sensitive load isolation," in 1989 IEEE/IAS Annu. Meet., pp. 947–951.
[55] F. Kamran and T. G. Habetler, "Combined deadbeat control of a series parallel converter combination used as a universal power filter," in 1995 IEEE Power Electronics Specialist Conf., pp. 196–201.
[56] F. Z. Peng, H. Akagi, and A. Nabae, "A new approach to harmonic compensation in power systems—A combined system of shunt passive and series active filters," IEEE Trans. Ind. Applicat., vol. 26, no. 6, pp. 983–990, 1990.
[57] H. Fujita and H. Akagi, "A practical approach to harmonic compensation in power systems—Series connection of passive and active filters," IEEE Trans. Ind. Applicat., vol. 27, no. 6, pp. 1020–1025, 1991.
[58] S. Bhattacharya and D. M. Divan, "Synchronous frame based controller implementation for a hybrid series active filter system," IEEE/IAS Annu.Meet., 1995, pp. 2531–2540.
[59] E. H. Watanabe, "Series active filter for the DC Side of HVDC transmission systems," in Proc. 1990 Int. Power Electronics Conf., Tokyo, Japan, 1990, pp. 1024–1030.
[60] L. Gyugyi, "A unified flow control concept for flexible AC transmission systems," Proc. Inst. Elect. Eng., vol. 139, pt. C, no. 4, pp. 323–331, 1992.
[61] H. Akagi, Y. Kanazawa, and A. Nabae, "Instantaneous reactive power compensators comprising switching devices without energy storage components," IEEE Trans. Ind. Applicat., vol. 20, no. 3, pp. 625–630, 1984.
[62] A. Draou, M. Benghanen, and A. Tahri, "Multilevel Converters and VAR Compensation", Chapter 25, Power Electronics Handbook, Muhamad H. Rashid,
Editor-in Chief, Academic Press, 2001, pp. 615-622.
[63] F. Zheng Peng, "A Generalized Multilevel Inverter Topology with Self Voltage Balancing", IEEE Transactions on Industry Applications, Vol. 37, N° 2,
March-April 2001, pp. 611-618.
[64] K. Matsui, Y Kawata, and F. Ueda, "Application of Parallel Connected NPC-PWM Inverters with Multilevel Modulation for AC Motor Drive", IEEE Transactions on Power Electronics, Vol. 15, N° 5, September 2000, pp. 901-907.
[65]Micah Ortuzar, Rodrigo Carmi, Juan Dixon Luis Morán: "Voltage Source Active Power Filter, Based on Multi-Stage Converter and Ultracapacitor DC-Link."
0-7803-7906-3/03 ©2003 IEEE.pp 2300-2305
[66] F.Z. Peng, J.S. Lai, J. McKeever, J. VanCoevering, "A multilevel voltage source inverter with separate dc sources for static Var generation," Conference Record of the IEEE-IAS Annual Meeting, 1995, pp. 2541- 2548.
[67] N. Mohan and G. Kamath, "A novel per phase approach of power electronic interface for power system applications," Proceedings of the NAPS, 1995, pp. 457–461.

[68] R. H. Osman, "A novel medium voltage drive topology with superior input and output power quality," report prepared by Robicon division of high voltage engineering.
[69] M. D. Manjrekar and T. A. Lipo, "A hybrid multilevel inverter topology for drive applications", IEEE Applied Power Electronics Conference, 1998, pp. 523-529.
[70] M. D. Manjrekar, P. K. Steimer, and T. A. Lipo, "Hybrid multilevel power conversion system: a competitive solution for high power applications", IEEE Trans on ind. Applications, Vol IA-36, N°3, May/June 2000, pp. 834-841.
[71] Powersim Technologies. PSIM Version 4.1, for "Power Electronics Simulations, User Manual", Powersim Technologies, Vancouver, Canada: Web:http://www.powersimtech.com.

Chapter 3

[1]. Gyugyi and E. Strycula, "Active ac power filter," *ZEEE Trans. Industry Applications,* pp. 529-535, 1976.
[2]. H. Akagi, A. Nahae, and S. Atoh, "Control strategy of active power filters using voltage-source PWM converters," *ZEEE Trans. Zndustry Applications,* vol. IA-22, no. 3 , p. 460, 1986.
[3]. K. Komatsugi *et al.* "Harmonic current compensator composed of static power converter," I*EEEIPESC Conf. Rec.,* 1986, p. 283.
[4]. S , Moran, "A line voltage regulator/conditioner for harmonic-sensitive load isolation," *IEEEIZAS Ann. Meeting Conf. Rec.,* 1989,
[5]. S. Deb, B. W. Sherman, and R. G. Hoft, "Resonant converter power line conditioner: Design and Evaluation," *IEEEIZAS Ann. Meeting Conf. Rec.,* 1989, pp. 952-958.
[6]. B. S . Acharya, R. W. Gascoigne, and D. M. Divan, "Active power filter using resonant pole inverters," *IEEEIZAS Ann. Meeting Conf. Rec.,* 1989, pp. 967-973.
[7]. A. Nakagima, J. Nishidai, and T. Shiraishi, "Development of active filter with series resonant circuit," *ZEEEIPESC Ann. Meeting Conf. Rec.,* 1988, p. 1168.
[8]. M. Ta3keda, K. Ikeda, Y. Tominaga, and K. Oku, "Harmonic current pp. 947-951. compensation with active filter," *ZEEEIZAS Ann. Meeting Cons. Rec.,* 1987, p. 808.
[9]. F. *Z*. Peng, H. Akagi, and A. Nahae, "A new approach to harmonic compensation in power systems," *ZEEEIZAS Ann. Meeting Conf. Rec.,* 1988, pp. 874-880.
[10] --- , "Compensation characteristics of combined system of shunt passive and series active filters, *ZEEEIZAS Ann. Meeting Conf. Rec.,* 1989, pp. 959-966.
[11]. H. Akagi *et al.* "Instantaneous reactive power compensators comprising switching device without energy storage components," *ZEEE Trans. Industry Applications,* vol. *IA-20,* no. 3, pp. 625-630, 1984.
[12] Hideaki Fujita and Hirohmi Akagi, *IEEE*:"A Practical Approach to Harmonic Compensation
in Power Systems-Series Connection of Passive and Active Filters" IEEE Transactions on Industry Applications, vol. *21,* no. *6* , November/December 1991
[131 S. Moran, "A Line Voltage Regulator/Conditioner for Harmonic-Sensitive Load Isolation,"IEEE-IAS ***Conf,*** 1989.
[14] F. Z. Peng, H. Akagi, A. Nabae, " A New Approach to Harmonic Compensation in Power Systems – A combined system of Shunt Passive and Series Active Filters," IEEE ***Trans. on Ind. Appli.,*** vol. 26, no. 6, pp. 983-989, Nov./Dec. 1990.

[15] H. Akagi, H. Fujita, "A new Power Line Conditioner for Harmonic compensation in Power Systems," IEEE ***Trans. on Power Delivery.,*** vol. 10, no. 3,1998
[16] K. P. Gokhale, A. Kawamura, and R. G. Hoft, "Dead Beat microprocessor control of PWM inverter for sinusoidal output waveform synthesis,"IEEE ***Trans. on Ind. Appli.,*** vol. IA-23, 110.5, pp. 901-910, Sep-Oct. 1987.
[17] Y. Y. Tzou, "DSP-Base fully digital control of a PWM DC-AC Converter for AC Voltage Regulation", IEEE-PESC ***95 Conf Poc.ec.,*** pp.138-134 , Atlanta, Georgia, Jun. 1995.
[18] C. A. Claro, J. Kaffka and A. Campos **"A** Fully Digital Control Employing a Dead Beat Technique for Active Power Filters"IEEE-PESC' ***99 Conf proc., Charleston, South Carolina, Jun, 1999.***
[19] T. Thomas, K. Haddad, ***GBza*** Jobs, A. Jaafari. "Design and Performance of Active Power Filters". IEEE ***Ind. Application Magazine,*** pp.38, vol. 4, **No *5,*** Sep./Oct. 1998.
[20] Fang Zheng Peng. "Application Issues **of** Active Power Filters". IEEE ***Ind. Application Magazine,*** pp.21, vol. 4, **No *5*** , SepJOct. 1998. pp.1570-1575, Jul. 1995.
[21] Carlos **A.** Claro Jonas Kaffka Alexandre Campos:'Analysis and Design of a shunt active power filter employing a dead beat control technique" 0-7803-5735-3-99-© IEEE –pp 1427-1433
[22]. Adam D¹browski+, Krzysztof Sozański:" Control Circuit for Active Power-Harmonic-Compensation Filter in Power Systems – Realized with Digital Signal Processor TMS320C50" – White Paper; Poznań University of Technology, Institute of Electronics and Telecommunication Division for Signal Processing and Electronic Systems,
[23] H. Akagi, Y. Kanazawa, and A. Nabae, *Instantaneous reactive power compensators comprising switching devices without energy storage components,* IEEE Trans. Ind. Applicat., vol. IA-20, pp. 625–630, May/June 1984.
[24] H. Fujita, H. Akagi, *A Practical Approach To Harmonic Compensation In Power Systems,* IEEE IAS Annual Meeting Conf. Rec., 1990.
[25] R. Strzelecki, R. Supronowicz, *Filtracja harmonicznych w sieciach zasilaj¹cych pr¹du przemiennego,* Wydawnictwo Adam Marszałek, Toruń, 1998 (in Polish).- Translated
[26] K. Sozański, R. Strzelecki, *Aplikacyjny uk³ad sterowania filtrem hybrydowym z zastosowaniem procesora sygna³owego,* Sterowanie w Energoelektronice i Napędzie Elektrycznym, Politechnika Łódzka, Łódź, 1995 (in Polish).- Translated
[27] G. Capwell, *Interfacing external memory to the TMS320C5x DSK,* Designer's Notebook, Texas Instruments, No 65, 10/1995.
[28] *TMS320C2x/C2xx/C5x optimizing C Compiler, User's Guide,* Texas Instruments, 1995.
[29] D. Rivas, L. Moran, J. Dixon and J. Espinoza **"A simple control scheme Filter for hybrid active power"** ***IC€*** **No** *4, Z(X)2 pp 485-490-Translated*
[30] PENG. F.Z.. AKAGI, H.. and NABAE. A,: 'A new approach to hannanic compensation in power systems-A combined system of shunt parrive and sencs active filters'. IEEE Tmm, bzd Appl.. 1990.26, (6). pp. 9 8 ~ 9 0
[31]. VAN ZYL. A.. ENSLIN. J.H.R.. STEYN, W.H.. and SPEE. R.: 'A (new unified approach to power quality management'. Proceedings of PESC 95. Atlanta. CA. USA. pp. 183-188

[32]. MORAN. L.. IIIXON. 1.. and WALLACE, R.: 'A three-phase active power filler operating with fixed switching frequency for reactive power and current harmonic compensation'. IEEE, 1996. 42.4, pp. 402408
[33]. BHATTACHARYA, S.. DIVAN. D.M.. and CHENG. P,-T,: 'Hyhnd solutions for improving passive filter performance in high power applications'. IEEE, Trans. Of Ind. Appl.. 1997. 33. (3). pp. 132-747
[34]. LIBANO, F... COBOS, I... and UCEDA. J.: 'Simplified Control Strategy for Hybrid Active Filters'. Proceedings of PESC 97. Saint- Louis. USA. pp. 1102-1108
[35] Pichai Jintakosonwit, Hirofumi Akagi and Satoshi Ogasawara:" Implementation and Performance of Automatic Gain Adjustment in a Shunt Active Filter for Harmonic Damping Throughout a Power Distribution System"; IEEE Transactions on power electronics, vol. 17, no. 3, may 2002 pp438-447
[36] K. Oku, O. Nakamura, and K. Uemura, "Measurement and analysis of harmonics in power distribution systems, and development of a harmonic suppression method," *Trans. Inst. Elect. Eng. Jpn.*, vol. 114-B, no. 3, pp. 234–241, 1994.
[37] T. Tenma, T. Genji, K. Mizuki, and Y. Fujita, "Suppression performance analysis of active filter by neural network control with voltage detection on distribution network," *Trans. Inst. Elect. Eng. Jpn.*, vol. 119-D, no. 5, pp. 713–719, 1999.
[38] Y. Susaki, T. Matsumura, T. Genji, J. Inoue, K.Yoshioka, and M.Kohata, "Development and proof examination result of active filter for power distribution systems," *Trans. Inst. Elect. Eng. Jpn.*, vol. 120-B, no. 5, pp. 746–752, 2000.
[40] W. K. Chang andW. M. Grady, "Minimizing harmonic voltage distortion with multiple current-constrained active power line conditioners," *IEEE Trans. Power Delivery*, vol. 12, pp. 837–843, May 1997.
[41] T. T. Chang and H. C. Chang, "An efficient approach for reducing harmonic voltage distortion in distribution systems with active power line conditioners," *IEEE Trans. Power Delivery*, vol. 15, pp. 990–995, Aug. 2000.
[42] H. Akagi, "Control strategy and site selection of a shunt active filter for damping of harmonic propagation in power distribution systems," *IEEE Trans. Power Delivery*, vol. 12, pp. 354–363, Feb. 1997.
[43] H. Akagi, H. Fujita, and K.Wada, "A shunt active filter based on voltage detection for harmonic termination of a radial power distribution line," *IEEE Trans. Ind. Applicat.*, vol. 35, pp. 638–645, May/June 1999.
[44] K.Wada, H. Fujita, and H. Akagi, "Considerations of a shunt active filter based on voltage detection for installation on a long distribution feeder," in *Proc. Conf. IEEE-IAS Annu. Meeting*, 2001, pp. 157–163.
[45] P. Jintakosonwit, H. Fujita, and H. Akagi, "Control and performance of a fully-digital-controlled shunt active filter for installation on a power distribution system," *IEEE Trans. Power Electron.*, vol. 17, pp. 132–140, Jan. 2002.
[46] K. P. Gokhale, A. Kawamura, and R. G. Hoft, "Dead-beat microprocessor control of PWM inverter for sinusoidal output waveform synthesis," *IEEE Trans. Ind. Applicat.*, vol. IA-23, pp. 901–910, Sept./Oct. 1987.
[47] L. Malesani, P. Matavelli, and S. Buso, "Robust dead-beat current control for PWM rectifiers and active filters," *IEEE Trans. Ind. Applicat.*, vol. 35, pp. 613–620, May/June 1999.

[48] M. Sedighy, S. B. Dewan, and F. P. Dawson, "A robust digital current control method for active power filters," *IEEE Trans. Ind. Applicat.*, vol. 36, pp. 1158–1164, July/Aug. 2000.
[49].Pichai Jintakosonwit, Hideaki Fujita, Hirofumi Akagi and Satoshi Ogasawara: "Implementation and Performance of Cooperative Control of Shunt Active Filters for Harmonic Damping Throughout a Power Distribution System" IEEE Transactions on Industry Applications, vol. 39, no. 2, March/April 2003 pp 556-564
[50] G. Lemieux, "Power system harmonic resonance—A documented case," *IEEE Trans. Ind. Applicat.*, vol. 26, pp. 483–488, Mar./Apr. 1990.
[51] E. J. Currence, J. E. Plizga, and H. N. Nelson, "Harmonic resonance at a medium-sized industrial plant," *IEEE Trans. Ind. Applicat.*, vol. 31, pp. 682–690, May/June 1995.
[52] K. Oku, O. Nakamura, and K. Uemura, "Measurement and analysis of harmonics in power distribution systems, and development of a harmonic suppression method," *Trans. Inst. Elect. Eng. Jpn.*, vol. 114-B, no. 3, pp. 234–241, 1994.
[53] Y. Susaki, T. Matsumura, T. Genji, J. Inoue, K.Yoshioka, and M.Kohata, "Development and proof examination result of active filter for power distribution systems," *Trans. Inst. Elect. Eng. Jpn.*, vol. 120-B, no. 5, pp. 746–752, 2000.
[54] W. K. Chang andW. M. Grady, "Minimizing harmonic voltage distortion with multiple current-constrained active power line conditioners," *IEEE Trans. Power Delivery*, vol. 12, pp. 837–843, Apr. 1997.
[55] T. T. Chang and H. C. Chang, "An efficient approach for reducing harmonic voltage distortion in distribution systems with active power line conditioners," *IEEE Trans. Power Delivery*, vol. 15, pp. 990–995, July 2000.
[56] H. Akagi, "Control strategy and site selection of a shunt active filter for damping of harmonic propagation in power distribution systems," *IEEE Trans. Power Delivery*, vol. 12, pp. 354–363, Jan. 1997.
[57] H. Akagi, H. Fujita, and K. Wada, "A shunt active filter based on voltage detection for harmonic termination of a radial power distribution line," *IEEE Trans. Ind. Applicat.*, vol. 35, pp. 638–645, May/June 1999.
[58] K. Wada, H. Fujita, and H. Akagi, "Considerations of a shunt active filter based on voltage detection for installation on a long distribution feeder," *IEEE Trans. Ind. Applicat.*, vol. 38, pp. 1123–1130, July/Aug. 2002.
[59] P. Jintakosonwit, H. Fujita, and H. Akagi, "Control and performance of a fully-digital-controlled shunt active filter for installation on a power distribution system," *IEEE Trans. Power Electron.*, vol. 17, pp. 132–140, Jan. 2002.
[60] P. Jintakosonwit, H. Akagi, H. Fujita, and S. Ogasawara, "Implementation and performance of automatic gain adjustment in a shunt active filter for harmonic damping throughout a power distribution system," *IEEE Trans. Power Electron.*, vol. 17, pp. 438–447, May 2002.
[61] D. G. Hart, D. Uy, J. N. Green, C. Laplace, and D. Novosel, "Automated solutions for distribution feeders," *IEEE Comput. Appl. Power*, vol. 13, pp. 25–30, Oct. 2000.
[62] D. J. Marihart, "Communications technology guidelines for EMS/SCADA systems," *IEEE Trans. Power Delivery*, vol. 16, pp. 181–188, Apr. 2001.
[63]. luis mori" juan dixon", sergio muller' rogel wallace': "An active power filter implemented with PWM voltage-source inverters in cascade" IEEE pp108-113,2002

[64] H. Akagi, Y. Kanazawa, A. Nabae, "Instantaneous Reactive Power Compensators Comprising Switching Devices without Energy Storage Components," *in IEEE Trans. on Industry Applications,* Vol IA-20, no 3. May-June 1984, pp. 625-630.
[65) W. M. Grady, M.J Samotyj, A.H. Noyola, "Survey of Active Power Line Conditioning Methodologies," in *IEEE Trans. On Power Delivery,* Vol *5* , no 3. July 1990, pp. 1536-1542.
[66] H. Kawahira, T. Nakamura, *S*. Nakazawa, M. Nomura, "Active Power Filters,"*Proc. of JIEE-IPEC,* March 1983, pp. 981- 992.
[67] H Akagi, A Nabae, S Atoh, "Control Strategy of Active Power Filters Using Multiple Voltage-Source P W Converters," *in IEEE Tratis. otr Itidistry Applicnitoit,* Vol. IA-22, no 3. MaylJune 2001
[68 F.Z. Peng, H. Akagi, A Nabae, "A Study of Active Power Filters Using Quad-Series Voltage-Source PWM Converters for Harmonic Compensation," *in IEEE Trans. oit Power Electronics,* Vol. 5, no I , January 1990, pp. 9-15.
[69] L. Moran, P. Godoy. R. Wallace, J Dixon. "A New Current Control Strategy for Active Power Filters Using Three Voltage Source Inverters," *irr Proc. of 1EEE PESC* 93, June 1993, pp. 3-9.
[70] A. Nabae, S Ogasawara, H Akagi, " A Novel Control Scheme for Current-Controlled PWM Inverters," *irr* IEEE *Trans. on industry Applications,* vol. IA-22, no 4, July/Aug. 1986, pp. 697-701 & 1986, pp. 460-465.
[71].Krzysztof Sozański, Ryszard Strzelecki, Adam Kempski :"Digital Control Circuit for Active Power Filter with Modified Instantaneous Reactive Power Control Algorithm" ," IEEE Transactions on Industry Applications , Vol. IA- 20 N0 3, May-June 1986, pp. 725-730
[72]. H. Akagi , Y. Kanazawa, A. Nabae, "Instantaneous Reactive Power Compensators Comprising Switching Devices without Energy Storage Components," IEEE Transactions on Industry Applications , Vol. IA- 20 N0 3, May-June 1984, pp. 625-630
[73]. R. Strzelecki, R. Supronowicz, „Filtracja harmonicznych w sieciach zasilających prądu przemiennego," Wydawnictwo Adam Marszałek, Toruń, 1998 (in Polish).
[74]. K. Sozański, R. Strzelecki, "Aplikacyjny układ sterowania filtrem hybrydowym z zastosowaniem procesora sygnałowego", Sterowanie w Energoelektronice i Napędzie Elektrycznym, Politechnika Łódzka, Łódź, 1995 (in Polish).
[75]. M. Kazimierkowski, L. Malesani, "Current Control Techniques for Three-Phase Voltage-Source Converters: A Survey," IEEE Transactions on Industrial Electronics Vol.45 N0 5, October 1998

Chapter 4

[1] Sunt Srianthumrong and Hirofumi Akagi: "A DC Model for Transient Analysis of a Series Active Filter Integrated With a Double-Series Diode Rectifier" IEEE Transactions on Industry Applications, vol. 39, no. 3, May/June 2003 pp 864-873
[2] T. Okuyama, H. Nagase, and Y. Kubota, "High performance ac motor speed control system using GTO converters," in Proc. 1983 Int. Power Electronics Conf., Tokyo, Japan, pp. 720–731.
[3] J. W. Dixon, A. B. Kulkarni, M. Nishimoto, and B. T. Ooi, "Characteristics of a controlled-current PWM rectifier-inverter link," in Conf. Rec.IEEE-IAS Annu. Meeting, 1986, pp. 685–691.

[4] R. Wu, S. B. Dewan, and G. R. Slemon, "A PWM ac to dc converter with fixed switching frequency," in Conf. Rec. IEEE-IAS Annu. Meeting, 1988, pp. 706–711.
[5] T. G. Habetler, "A space vector-based rectifier regulator for ac/dc/ac converters," IEEE Trans. Power Electron., vol. 8, pp. 30–36, Jan. 1993.
[6] H. Fujita and H. Akagi, "An approach to harmonic current-free ac/dc power conversion for large industrial loads: the integration of a series active filter with a double-series diode rectifier," IEEE Trans. Ind. Applicat., vol. 33, pp. 1233–1240, Sept./Oct. 1997.
[7] S. Srianthumrong, H. Fujita, and H. Akagi, "Stability analysis of a series active filter integrated with a double-series diode rectifier," IEEE Trans. Power Electron., vol. 17, pp. 117–124, Jan. 2002.
[8] R. D. Middlebrook and S. Cuk, "A general unified approach to modeling switching-converter power stages," in Proc. IEEE PESC'76, 1976, pp. 18–34.
[9] P. T. Krein, J. Bentsman, R. M. Bass, and B. L. Lesieutre, "On the use of averaging for the analysis of power electronic systems," IEEE Trans. Power Electron., vol. 5, pp. 182–190, Apr. 1990.
[10] S. R. Sanders, J. M. Noworolski, X. Z. Liu, and G. C. Verghese, "Generalized averaging method for power conversion circuits," IEEE Trans. Power Electron., vol. 6, pp. 251–259, Apr. 1991.
[11] B. Lenman and R. M. Bass, "Extensions of averaging theory for power electronic systems," IEEE Trans. Power Electron., vol. 11, pp. 542–553, July 1996.
[12] F. S. Tsai, "Small-signal and transient analysis of a zero- voltageswitched, phase-controlled PWM converter using averaged switch model," IEEE Trans. Ind. Applicat., vol. 29, pp. 493–499, May/June 1993.
[13] D. J. Perreault and J. G. Kassakian, "Effects of firing angle imbalance on 12-pulse rectifiers with interphase transformers," IEEE Trans. Power Electron., vol. 10, pp. 257–262, May 1995.
[14] G. C.Verghese, M. E. Elbuluk, and J. G. Kassakian, "A general approach to sampled-data modeling for power electronic circuits," IEEE Trans Power Electron., vol. PE-1, pp. 76–89, Apr. 1986.
[15] R.Wu, S. B. Dewan, and G. R. Slemon, "Analysis of an ac-to-dc voltage source converter using PWM with phase and amplitude control," IEEE Trans. Ind. Applicat., vol. 27, pp. 355–364, Mar./Apr. 1991.
[16] H. D. Laird, S. D. Round, and R. M. Duke, "A frequency-domain analytical model of an uncontrolled single-phase voltage-source rectifier," IEEE Trans. Ind. Electron., vol. 47, pp. 525–531, June 2000.
[17] Y. Guo, X. Wang, H. C. Lee, and B. T. Ooi, "Pole-placement control of voltage-regulated PWM rectifiers through real-time multiprocessing," IEEE Trans. Ind. Electron., vol. 41, pp. 224–230, Apr. 1994.
[18] E. P.Weichmann, P. D. Ziogas, and V. R. Stefanovic, "Generalized functional model for three-phase PWM inverter/rectifier converters," IEEE Trans. Ind. Applicat., vol. IA-23, pp. 236–246, Mar./Apr. 1987.
[19] C. T. Rim and G. H. Cho, "Phasor transformation and its application to the dc/ac analyzes of frequency phase-controlled series resonant converters (SRC)," IEEE Trans. Power Electron., vol. 5, pp. 201–211, Apr. 1990.

[20] C. T. Rim, D. Y. Hu, and G. H. Cho, "Transformers as equivalent circuits for switches: general proofs and d-q transformation-based analyzes," IEEE Trans. Ind. Applicat., vol. 26, pp. 777–785, July/Aug. 1990.
[21] C. T. Rim, N. S. Choi, G. C. Cho, and G. H. Cho, "A complete dc and ac analysis of three-phase controlled-current PWM rectifier using circuit d-q transformation," IEEE Trans. Power Electron., vol. 9, pp. 390–396, July 1994.
[22] S. B. Han, N. S. Choi, C. T. Rim, and G. H. Cho, "Modeling and analysis of static and dynamic characteristics of buck-type three-phase PWM Rectifier by circuit dq transformation," IEEE Trans. Power Electron., vol. 13, pp. 323–336, Mar. 1998.
[23] D. A. Rendusara, A. von Jouanne, P. N. Enjeti, and D. A. Paice, "Design considerations for 12-pulse diode rectifier systems operating under Voltage unbalance and pre-existing voltage distortion with some corrective measures," IEEE Trans. Ind. Applicat., vol. 32, pp. 1293–1303, Nov. /Dec. 1996.
[24] F. Z. Peng, H. Akagi, and A. Nabae, "A new approach to harmonic compensation in power systems—a combined system of shunt passive and series active filters," IEEE Trans. Ind. Applicat., vol. 26, pp. 983–990, Nov./Dec. 1990.
[25]. Sunt Srianthumrong, Hideaki Fujita, and Hirofumi Akagi :"Stability Analysis of a Series Active Filter Integrated With a Double-Series Diode Rectifier"; IEEE Transactions on Power Electronics, vol. 17, No. 1, January 2002 pp 117-125
[26] T. Okuyama, H. Nagase, and Y. Kubota, "High performance ac motor speed control system using GTO converters," in Proc. 1983 Int. Power Electron. Conf., Tokyo, Japan, 1983, pp. 720–731.
[27J. W. Dixon, A. B. Kulkarni, M. Nishimoto, and B. T. Ooi, "Characteristics of a controlled-current PWM rectifier-inverter link," Proc. 1986 IEEE/IAS Annu. Meeting, pp. 685–691, 1986.
[28] R. Wu, S. B. Dewan, and G. R. Slemon, "A PWM ac to dc converter with fixed switching frequency," Proc. 1988 IEEE/IAS Annu. Meeting, pp. 706–711, 1988.
[29] T. G. Habetler, "A space vector-based rectifier regulator for ac/dc/ac converters," IEEE Trans. Power Electron., vol. 8, pp. 30–36, Jan. 1993.
[30] H. Fujita and H. Akagi, "An approach to harmonic current-free ac/dc power conversion for large industrial loads: The integration of a series active filter with a double-series diode rectifier," IEEE Trans. Ind. Applicat., vol. 33, pp. 1233–1240, Sept./Oct. 1997.
[31] H. Akagi, "New trends in active filters for power conditioning," IEEE Trans. Ind. Applicat., vol. 32, pp. 1312–1322, Nov./Dec. 1996.
[32] H Akagi and Y Tsokamoto:" Analysis and Design of an Active Power Filter Using Quad-Series Voltage Source PWM Converters" IEEE Transactions on Industry Applications. vol. 26. No: I , January/February 1990, pp 93-98
[33] H. Kawahira, T. Nakamura, and S. Nakazawa, "Active power filters," in Proc. JIEE IPEC Tokyo, 1983, p. 981.
[34] K. Komatsugi and T. Imura, "Harmonic current compensator composed of static power converter," in IEEEIPESC Conf. Rec., p. 283,1986.
[35] M. Takeda et al., "Harmonic Current Compensation with Active Filter," in Conf. Rec. IEEE IAS Annual Meeting, p. 808, 1987.
[36] M. Kohata et al., "Compensator for harmonics and reactive power using static induction thyristors," European Conf. on Power Electronics and Applications, 1987.

[37] H. Akagi, A. Nabae, and S. Atoh, "Control Strategy of Active Power Filters Using Multiple voltage source PWM converters," IEEE Trans.IAS, vol. IA-22, no. 3, p. 460, 1986.
[38] Hirofumi Akagi Hiroshi Hasegawa, and Takafumi Doumoto: "Design and Performance of a Passive EMI Filter for Use With a Voltage-Source PWM Inverter Having Sinusoidal Output Voltage and Zero Common-Mode Voltage" IEEE transactions on Power Electronics, vol. 19, no. 4, july 2004 pp 1069-1078
[39] G. L. Skibinski, R. J. Kerkman, and D. W. Schlegel, "EMI emissions of modern PWM ac drive," IEEE Ind. Applicat. Soc. Mag., vol. 5, pp. 47–81, June 1999.
[40] Y. Murai, T. Kubota, and Y. Kawase, "Leakage current reduction for a high frequency carrier inverter feeding an induction motor," IEEE Trans. Ind. Applicat., vol. 28, pp. 858–863, July/Aug. 1992.
[41] Y. Kazunori, H. Fujita, and H. Akagi, "A reduction method of high frequency leakage currents from a PM motor drive system using a PWM inverter," in IEE Japan Conf. Rec., Chugoku, Japan, Oct. 1992.
[42] J. M. Erdman, R. J. Kerkman, D.W. Schlegel, and G. L. Skibinski, "Effect of PWM inverters on ac motor bearing currents and shaft voltages," IEEE Trans. Ind. Applicat., vol. 32, pp. 250–259, Mar./Apr. 1996.
[43] S. Ogasawara and H. Akagi, "Modeling and damping of high-frequency leakage currents in PWM inverter-fed ac motor drive systems," IEEE Trans. Ind. Applicat., vol. 32, pp. 1105–1114, Sept./Oct. 1996.
[44] S. Chen, T. A. Lipo, and D. Fitzgerald, "Modeling of motor bearing currents in PWM inverter drives," IEEE Trans. Ind. Applicat., vol. 32, pp. 1365–1370, Nov./Dec. 1996.
[45] Von Jouanne, P. Enjeti, and W. Gray, "Application issues for PWM adjustable speed ac motor drive," IEEE Ind. Applicat. Soc. Mag., vol. 2, pp. 10–18, May 1996.
[46] S. Ogasawara, H. Ayano, and H. Akagi, "Measurement and reduction of EMI radiated by a PWM inverter-fed ac motor drive system," IEEE Trans. Ind. Applicat., vol. 33, pp. 1019–1026, July/Aug. 1997.
[47] S. J. Kim and S. K. Sul, "A novel filter design for suppression of high voltage gradient in voltage-fed PWM inverter," in Proc. Appl. Power Electron. Conf., 1997, pp. 122–127.
[48] D. A. Rendusara and P. N. Enjeti, "An improved inverter output filter configuration reduces common and differential modes dv=dt at the motor terminals in PWM drive systems," IEEE Trans. Power Electron., vol. 13, pp. 1135–1143, Nov. 1998.
[49] M. M. Swamy, K. Yamada, and T. Kume, "Common mode current attenuation techniques for use with PWM drives," IEEE Trans. Power Electron, vol. 16, pp. 248–255, Mar. 2001.
[50] S. Ogasawara, H. Ayano, and H. Akagi, "An active circuit for cancellation of common-mode voltage generated by a PWM inverter," IEEE Trans. Power Electron, vol. 13, pp. 835–841, Sept. 1998.
[51] I. Takahashi, A. Ogata, H. Kanazawa, and A. Hiruma, "Active EMI filter for switching noise of high frequency inverters," in Proc. PCC'97 Conf. Nagaoka, Japan, 1997, pp. 331–334.
[52] H. du T.Mouton, F.W.Combrink, J.H.R.Enslin and H.Akagi:" Design optimisation of a resonant turn-off snubber for high-power converters"; IEE Proc.-Electr. Power Appl , Vol. 148. No. 3, May 2001 pp229-237
[53] TRIVEDI, M, PENDHARKAR, S, and SHENAI, K: 'Switching characteristics of MCT's and IGBT's in power converters', IEEE Trans. Electron. Devices, 1996, 43, (1 I), pp. 1994-2003

[54] TRIVEDI, M, and SHENAI, K 'Modeling the turn-off of IGBT's in hard-and soft-switching applications', IEEE Truns. Ekwron. Devices, 1997,44, (5), pp. 887-893
[55] FDJAJA, I, KRUNIA, A, SHENAI, K, and DIVAN, D.M.: Switching dynamics of IGBTs in soft-switching converters', IEEE Trcms. Electron. Devices, 1995, 42, (3), pp. 445-454
[56] SWANEPOEL, P.R., and VAN WYK, J.D.: 'Analysis and optimization of regenerative linear snubber applied to switches with voltage and current tails', IEEE Trans. Power Electron., 1994, 9, (4), pp. 433- 441
[57] MCURRAY, W 'Optimum snubber for power semiconductors', IEEE Trans. Ind. Appl., 1972, IA-8, (5), pp. 593-600
[58] STEYN, C.G., and VAN WYK, J.D.: 'Optimum non-linear turn-off snubber: design and application', IEEE Truns. Ind. Appl., 1989, 25, (2), pp. 298-306
[59] Huu-Phuc To, Faz Rahman and Colin Grantham:"An Adaptive Algorithm for Controlling Reactive Power Compensation in Active Power Filters";
[60] V.Soares, P. Verdelho and G.D. Marques, "An instantaneous active and reactive current component method for active power filters", IEEE Trans. Power Electronics, vol. 15, no. 4, pp. 660-669, Jul. 2000.
[61] S. Fukuda and T. Takayoshi, "Control method for a combined active filter system employing a current source converter and a high pass filter", Trans. Ind. Apps., vol. 31, no. 3, pp. 590-597, May/June 2000.
[62] H. P. To, M. F. Rahman and C. Grantham, "Decoupled control of a three phase current source active power filter", Proceedings of Australasian Uni. Power Eng. Conf. 2002, Melbourne, Australia.
[63] H.P. To, M.F. Rahman and C. Grantham, "A current source active power filter with minimising number of current sensor", Proceedings of Australasian Uni. Power Eng. Conf. 2003, Christchurch, New Zealand.
[64] T. Takeshita and N. Matsui, "Control of active filters using source current detection", Proceedings of 29th IEEE Ind. Electronic Soc. Conf., vol. 2, pp. 1515-1520, Nov. 2003.
[65] G.W. Chang and T.C. Shee, "A comparative study of active power filter reference compensation approaches", Proceedings of IEEE Power Eng. Soc. Meeting, vol. 2, pp. 1017-1021, July 2002.
[66] . Verdelho, P. Marques, G. D. (1998). "Four-Wire Current Regulated PWM Voltage Converter", IEEE Transactions on Industrial Electronics, Vol. 45, No. 5.
[67]. Afonso, J. Couto, C. Martines, J. (2000) "Active Filter with Control Based on the p-q Theory", IEEE Industrial Electronics Society Newsletter, Vol. 47, No. 3.
[68] Dixon, J. W. Venegas, G. Moran, L. A. (1997) "A Series Active Power Filter Based on a Sinusoidal Current-Controlled Voltage-Source Inverter, IEEE Transactions on Industrial Electronics,Vol. 44, No. 5.
[69] Aredes, M. Watanabe, E. H. (1995) "New Control Algorithms for Series and Shunt Three-phase Four-Wire Active Power Filters", IEEE Transaction on Power Delivery, Vol. 10, No. 3.
[70]. Grady, W.M. Samotyj, M. J. Noyola, A. H. (1990). "Survey of Active Power Line Conditioning Methodologies", IEEE Transaction on Power Delivery, Vol. 5, No. 3.
[71] Pietro, J. Salmeron, P. Vazquez, J. R. (2001). "Control Implementation of a Three-Phase LoadCompensation Active Conditioner", EPE 2001 – Graz.
[72] . Chen, Y., O'Connell, R., (1997) "Active Power Line Conditioner with a Neural Network Control", IEEE Transactions on Industrial Applications, Vol. 33, No. 4.

[73] R. Magureanu, S. Ambrosii, D. Creanga, L. Bratosin, A. Draghici: "Active power filters advanced control" TEQREP NNE5-2002-00012Techniques and equipments for quality and reliability of electrical power", National Programme No. 1615/12.02.2001,
[74]. Akagi, Y. Kanazawa, Nabae, A. (1983) "Generalized Theory of the Instantaneous Reactive Power in Three-Phase Circuits", IPEC'83 – Int. Power Electronics Conf., Tokyo, Japan.
[75]. Magureanu R., Ambrosii S., Creanga D., Staicu C., Radut V. (2002) "Unity power factor rectifiers and active power filters for industrial applications", Proceedings – National Conference on Electrical Drives, Galati.
[76] Abellan, A. Benavent, J. M. (2001). "A New Combined Control Method for Shunt Active Filters applied to Four-Wire Power Systems", EPE 2001 – Graz.
[77]. Ambrosii, S. (2001), "Actionari reglabile de performanta ridicata cu motor asincron" Teza de doctorat, Universitatea "Politehnica" Bucuresti.

Language ?

Chapter 5-7

- MATLAB® R13/R14: DOCUMENTATION CD — The Mathworks Inc.
- Using MATLAB7: User Guide — The Mathworks Inc.
- Using SIMULINK5: User Guide — The Mathworks Inc.
- Creating Graphical User Interfaces(Version 6) — The Mathworks Inc.
- Website: WWW.MATHWORKS.COM
- Code Composer Studio v3.0 for TMDS320006X Series of DSP Processors. Texas Instruments.
- ccslink (MATLAB link for CCSv3.0 DSP) — The Mathworks Inc.
- C6711 DSP Starter Kit (DSK)- TMDS320006711 — Texas Instruments.
- SIGNALWARE AED-102 Multi-Channel Process Control Analog Expansion Daughterboard
- 5k--6K Interface Board EVM — Texas Instruments.
- TVL2553/56 EVM Board for TMDS32006X DSP processors. Texas Instruments.
- TLV5614-10-30 EVM module for DSP processors. — Texas Instruments.
- www.ti.com

Chapter 8

[1]. Adam D¹browski+, Krzysztof Sozañski#
"Control Circuit for Active Power-Harmonic-Compensation Filter in Power Systems – Realized with Digital Signal Processor TMS320C50"

[2]. G. Capwell,
Interfacing external memory to the TMS320C5x DSK, Designer's Notebook, Texas Instruments, No 65, 10/1995.

[3]. Wajiha Shireen, Li Tao and M S Arefeen
"Implementation of a dsp based active power filter for electric power distribution systems supplying nonlinear loads

go through all the ref as Biblo as Come of all the mistakes.