
Referencias

REFERENCIAS

- [ARKK02] Arkkio, N. Bianchi, S. Bolognani, T. Jokinen, F. Luise, M. Rosu. "Design of Synchronous PM Motor for Submersed Marine Propulsion Systems". In Proc. of ICEM'02. Brugges 2002, CD Rom.
- [ASHER01] G.M. Asher, M. Sumner, F. Cupertino, A. Lattanzi. "Direct Flux Control of Induction Motor Drives". In Proc. EPE'01 Conference, Graz 2001, CD Rom.
- [BAKH00] Bakhshai, A.R.; Joòs, G; Jain, P.K; Jin, H. "Incorporating the Overmodulation Range in Space Vector Pattern Generators Using a Classification Algorithm". *IEEE Trans.on Power Electronics*, 2000. Vol. 15, issue 1, pp. 83-91.
- [BOLD92] I. Boldea, S. A. Nasar, "Vector Control of AC Drives". Boca Raton (USA) : CCR Press, 1992, 237 p.
- [BOLD00] I. Boldea, L. János, F. Blaabjerg. "A Modified Direct Torque Control (DTC) of Reluctance Synchronous Motor Sensorless Drive". *Electric Machines and Power Systems*, 2000. No 28, pp. 115-128.
- [BOLOG02] S. Bolognani, N. Bianchi, M. Zigliotto. "Electric Motors for the Growth in the Drive Applications". In Proc. of EPE02 Conference, Croatia 2002, CD Rom
- [BORN91] G. Bornard, H. Hammouri. "A High Gain Observer for a class of Uniformly Observable Systems". In Proc. IEEE Conference Decision Control part. 2 (of 3) 1991. Brighton, G. B. 1991, p. 1494-1496
- [BOSE90] B. Bose. "An Adaptive Hysteresis-Band Current Control Technique of a Voltage-Fed PWM Inverter for Machine Drive System". *IEEE Trans. on Industrial Electronics*, Oct. 2000. Vol. 37, issue 5, pp. 402-408.
- [BOSE97] B. Bose. "Power Electronics and Variable Frequency Drives : Technology and Applications ". Piscataway : IEEE Press, 1997, 640 p.
- [BOUM01] T. Boumegoura. "Recherche de signature électromagnétique des défauts dans une machine asynchrone et synthèse d'observateurs en vue du diagnostic". Thèse Doctorat. Ecole Central de Lyon, 2001, 147 p
- [BRIZ95] F. Briz. "Control Vectorial del motor de Inducción con Identificación y Adaptación a los Parámetros de la carga". Tesis Doctoral, Universidad de Oviedo, 1995, 208 p.
- [BROE88] H.W. Van der Broeck, H. Skundelny, G.V. Stanke, "Analysis and Realization of a Pulsewidth Modulator based on Voltage Space Vectors". *IEEE Trans. on Industry Applications*, 1988, Vol. 24, issue 1, pp. 142-150.
- [BROE91] H.W. Van der Broeck, "Analysis of the Harmonics in Voltage Fed Inverters Drives caused by PWM Schemes with Discontinuous Switching Operation". European Power Electronics Conference, Firenze (Italy), 1991. Vol. 3, pp. 261-266.
- [CANUD00] C. Canudas, "Modelisation, contrôle vectoriel et DTC: Commande des moteurs asynchrones 1". Paris : Hermes Science, 2000, 258 p.

- [CASA00] D. Casadei, G. Serra, A. Tani. "Implementation of a Direct Torque Control Algorithm for Induction Motors Based on Discrete Space Vector Modulation". *IEEE Trans. on Power Electronics*, July 2000. Vol. 15, issue 4, pp. 769-777.
- [COMN00] V. Comnac, F. Moldoveanu, F. Sisak, S. Moraru, C. Apostoiaia. "Sensorless Control of Interior Permanent Synchronous Motor Drives". In Proc. CONTI'00 (International Conference on Technical Informatics). Timisoara, Rumania 2000. (Personal communication with the autor).
- [DAMI01] A. Damiano, G. Gatto, I. Morangiu, A. Perfetto. "An Improved Multilevel DTC Drive". In Proc. PESC'01 Conference, Vancouver 2001, CD Rom
- [DEPE88] M. Depenbrock. "Direct Self-control of Inverter-fed Machine". *IEEE Trans. on Power Electronics*, Oct. 1988. Vol. 3, issue 4, pp. 420-429.
- [DRUR02] W. Drury. "Electrical Variable Speed Drives - An Engineers View of the Industrial Market". Keynote in International Conference on Power Electronics, Machines and Drives. Bath, UK, Abril 2002.
- [DSPACE1] dSPACE GmbH, DS1102 Floating-Point Controller Board. Texas, Dallas (USA) : Texas Instrument, 1998. User's manual.
- [DSPACE2] dSPACE GmbH, DS1102 Real-Time Interface to SIMULINK. Texas, Dallas (USA) : Texas Instrument, 1998. User's manual.
- [DSPACE3] dSPACE GmbH, DS1102 Software Environment, 1998. Texas, Dallas (USA) : Texas Instrument, 1998. User's manual.
- [DSPACE4] dSPACE GmbH, DS1102 COCKPIT Instrument Panel. Texas, Dallas (USA) : Texas Instrument, 1998. User's manual.
- [DSPACE5] dSPACE GmbH, DS1102 Real-Time TRACE Module. Texas, Dallas (USA): Texas Instrument, 1998. User's manual.
- [DSPACE6] dSPACE GmbH, DS1102 MATLAB-DSP Interface Library (MLIB). Texas, Dallas (USA) : Texas Instrument, 1998. User's manual.
- [DSPACE7] dSPACE GmbH, DS1102 Real-Time TRACE Module for MATLAB (MTRACE) . Texas, Dallas (USA) : Texas Instrument, 1998. User's manual.
- [DSPACE8] dSPACE GmbH, DS1102 Program Loader (LD31) . Texas, Dallas (USA) : Texas Instrument, 1998. User's manual.
- [FAIZ01] J. Faiz, M.B.B. Sharifian. "Comparison of different Switching Patterns in Direct Torque Control Technique of Induction Motors". *Electric Power Systems Research*, 2001. No 60, pp. 63-75.
- [FODOR02] D. Fodor, Sz. Vajda, K. Biró. "Extended Kalman Filter Based Speed Sensorless AC Motor Control with Parameter Estimation". In Proc. EPE-PEMC Conference, Croatia 2002, CD Rom
- [GAUTH92] J. P. Gauthier, H. Hammouri, S. Othman. "A Simple Observer for Nonlinear Systems, Application to Bioreactors". *IEEE Trans. on Automatic Control*, 1992. Vol. 37, issue 6, pp. 875-880.
- [GIER02] J. Gieras, N. Bianchi. "Electric Motors for Light Traction". In Proc. of EPE-PEMC Conference, Dubrovnik 2002, CD Rom
- [HASSAN99] I. el Hassan. "Commande Haute Performance d'un Moteur Asynchrone sans Capteur de Vitesse par Contrôle Direct du Couple". Thèse Doctorat; Institut National Polytechnique de Toulouse, 1999, 184 p.

- [HOLTZ87] J. Holtz, P. Lammert, W. Lotzkat, "High-Speed Drive System with Ultrasonic MOSFET PWM Inverter and Single-Chip Microprocessor Control". *IEEE Trans. on Industry Electronics*, Nov/Dec 1987. Vol. IA-23, issue 6, pp. 1010-1014.
- [HOLTZ92] J. Holtz, "Pulsewidth Modulation – A survey". *IEEE Trans. on Industrial Electronics*, Dic. 1992. Vol. 39, issue 5, pp. 410-419.
- [HOPP02] E. Hopper. "Servoactuators for Vehicle Systems". In Proc. of PCIM 2000, Nuremberg 2002, CD Rom
- [JANSS02] P. Jansson, D. Spasic. "Application of Soft Magnetic Composite Materials for Electric Motors". In Proc. of EPE-PEMC Conference, Dubrovnik 2002, CD Rom
- [JORD95] X. Jorda. "Conception et Réalisation d'une commande économique de couple d'une machine asynchrone pour la traction électrique". Thèse Doctorat; Institut National des sciences appliquées de Lyon, 1995, 213 p.
- [KALM61] R. E. Kalman, R. S. Bucy. "New results in linear filtering and prediction theory". *J. Basic. Eng*, 1961, pp. 95-108.
- [KANG01] J.K. Kang, S.K. Sul. "Analysis and Prediction of Inverter Switching Frequency in Direct Torque Control of Induction Machine Based on Hysteresis Bands and Machine Parameters". *IEEE Trans. on Industrial Electronics*, June 2001. Vol. 48, issue 3, pp. 545-553.
- [KERK99] R.J. Kerkman, G.L. Skibinski, D.W. Schlegel. "AC Drives: Year 2000 (Y2K) and Beyond". In Proc. of APEC'99 Conference. Dallas, Texas 1999, pp. 28-39.
- [KRAH99] J. O. Krah, J.Holtz. "High-Performance Current Regulation and Efficient PWM Implementation for Low-Inductance Servo Motors". *IEEE Trans. on Industry Applications*, Sept./Oct. 1999. Vol. 35, issue 5, pp. 1039-1049.
- [LEE00] K.B. Lee, J.H. Song, I. Choy, J.Y. Choi, J.H. Yoon, S.H. Lee. "Torque Ripple reduction in DTC of Induction Motor driven by 3-level Inverter with Low Switching Frequency". In Proc. of PESC'00 Conference, Galway 2000, CD Rom
- [LEON90] W. Leonhard, "Control of Electrical Drives". 2^o ed. corregida. Berlin : Springer-Verlag, 1990, 346 p.
- [LEONM00] J. de León-Morales, S. Acha-Daza. "Observer-based control for Synchronous Generator". *Electrical Power and Energy Systems*, 2000. No 22, pp. 575-587.
- [LUENB64] C. G. Luenberger. "Observing the state on a linear system". *IEEE Trans. Mil. Electron.* Apr. 1964, Vol. 8, pp. 74-80.
- [LUENB66] C. G. Luenberger. "Observers for multivariable system". *IEEE Automatic Control*. Apr. 1966, Vol. 11, pp. 190-197.
- [LUENB71] C. G. Luenberger. "An Introduction to Observers". *IEEE Automatic Control*. Dec. 1971, Vol. 16, pp. 596-602.
- [MART02] C Martins, X. Roboam, T. A. Meynard, A. S. Caryalho. "Switching Frequency Imposition and Ripple Reduction in DTC Drives by using a Multilevel Converter". *IEEE Trans. on Power Electronics*, Mar. 2002. Vol. 17, issue 2, pp. 286-297.
- [MAUR92] B. Maurice, "Simplified Digital Control for three phase induction motor drive". *EPE Journal*, Oct 1992. Vol. 2, no. 3, pp. 181-190.

- [MEI99] C. G. Mei, S. K. Panda, J. X. Xu, K. W. Lim. "Direct Torque Control of Induction Motor-Variable Switching Sectors". Conf. Rec. IEEE-PEDS, July 1999. Hongkong, pp. 80-85.
- [MOHAN89] N. Mohan, T. M. Undeland, W. P. Robbins, "Power Electronics: Converters, Applications and Design". New York : John Wiley & Sons, 1989, 667 p.
- [MORA01] J.L. Mora, A. Torralba, L.G. Franquelo. "An Adaptive Speed Estimator for Induction Motors Based on a Kalman Filter with Low Sample Time". In. Proc. PESC'01 Conference, Vancouver, Canada 2001, CD Rom
- [MORI02] S. Morimoto, Y. Takeda, H. Murakami. "Motor for Home Applications - Development of Environment-Friendly Electric Motors". In Proc. of EPE-PEMC Conference, Dubrovnik 2002, CD Rom
- [NAGU86] T. Naguchi, I. Takahashi. "A new quick-reponse and high-efficiency control strategy of an induction motor". *IEEE Trans. on Industrial Applications*, Sept/Oct 1986. Vol. IA-22, pp. 820-827.
- [OGAT93] K. Ogata. "Ingeniería de Control Moderna". 2^o ed. Mexico : Prentice Hall, , 1993, 1020 p.
- [RAHM98] M. F. Rahman, L. Zhong, K. W. Lim. "A Direct Torque controlled Interior Magnet Synchronous Motor drive incorporating Field Weakening". *IEEE Trans. on Industrial Applications*, Nov;/Dec. 1998. Vol. 34, issue 6, pp. 1246-1253.
- [RAHM98_1] M. F. Rahman, L. Zhong, K. W. Lim. "Voltage Switching Strategies for the Direct Torque Control of Interior Magnet Synchronous Motor Drives". International Conference on Electrical Machines (ICEM). Istanbul, Turkey. Sept. 1998, pp. 941-945.
- [RAHM99] M. F. Rahman, L. Zhong, K. W. Lim, M. A. Rahman. "A Direct Torque Controller for Permanent Magnet Synchronous Motor Drives". *IEEE Trans. on Energy Conversion*, Sept. 1999. Vol. 14, issue 3, pp. 637-642.
- [RETIF98] J-M Rétif, "La Commande Raprochée". Documento pedagógico. 3er año, Departamento de Ingeniería Eléctrica. INSA de Lyon, 2000, 34 p.
- [SEGUI89] G. Segui, F. Labrique. "La conversion continu-alternatif". Paris : Technique et Documentation-Lavoisier, 1989, 414 p.
- [STEP90] J. Stepina, "Complex Equations for Electric Machines at Transient Conditions". International Conference on Electrical Machines (ICEM). Cambridge (USA), 1990. Vol. 1, pp. 43-47.
- [TAKA89] I. Takahashi, Y. Ohmori. "High-Performance Direct Torque Control of an Induction Motor". *IEEE Trans. on Industrial Applications*, Mar./Apr. 1989. Vol. 25, issue 2, pp. 257-264.
- [TATEM98] K. Tatematsu, D. Hamada, K. Uchida, S. Wakao, T. Onuki. "Sensorless Control for Permanent Magnet Synchronous Motor with Reduced Order Observer". In Proc. of PESC'98. Fukuoka, Japan 1998, pp. 125-131.
- [THOG02] P. Thøgersen, F. Braabjerg. "Adjustable Speed Drives in the Next Decade - The Next Steps in Industry and Academia". In Proc. of PCIM 2000, Nuremberg 2002, CD Rom

- [TRZY94] A. M. Trzynadlowski, S. Legowski, "Minimum-Loss Vector PWM Strategy for Three-Phase Inverters". *IEEE Trans. on Power Electronics*, Jan. 1994. Vol. 9, issue 1, pp. 26-34.
- [VAS93] P. Vas. "Parameter Estimation, Condition Monitoring and Diagnosis of Electrical Machines". Oxford : Clarendon Press, 1993. 360 p. ISBN 0-19-859375-9.
- [VAS98] P. Vas. "Sensorless Vector and Direct Torque Control". Oxford : Oxford University Press, 1998, 560 p. ISBN 0-19-856465-1.
- [VERGH88] G. C. Verghese, S. R. Sanders. "Observers for Flux Estimation in Induction Machines". *IEEE Trans. on Industrial Electronics*, Feb. 1988. Vol. 35, issue 1, pp. 85-94.
- [WOON00] G. Woon-Seng, Ch. Yong-Kim, T. Wei-Tong. "Rapid Prototyping for teaching real-time digital signal processing". *IEEE Trans. on Education*, Feb. 2000. Vol. 43, issue 1, pp. 19-24.
- [ZAMOR97] J. L. Zamora. "Estimación en Tiempo Real de Parámetros y Variables de Estado en un Motor de Inducción". Tesis Doctoral, Universidad Pontificia de Comillas, ICAI. Madrid, 1997, 280 p.
- [ZHANG01] Q. Zhang, A. Xu. "Implicit Adaptive Observers for a Class of Nonlinear Systems". *In Proc. American Control Conference'2001*. Arlington, 2001, pp. 1551-1556
- [ZOLGH98] M. R. Zolghadri, J. Guiraud, J. J Davoine, D. Roze. "A DSP Based Direct Torque Controller for Permanent Magnet Synchronous Motor Drives". *In Proc. of PESC'98*, 1998, Fukuoka, Japan, pp. 2055-2061

