

參考文獻

- [1] S. K. Sul and T. A. Lipo, "Field Oriented Control of an Induction Machine in a High Frequency Link Power System," IEEE Transactions on Power Electronics, vol.5, no.4, 1990, pp.436-445.
- [2] T. A. Lipo, "Recent Progress in the Development of Solid-State Ac Motor Drives", IEEE Trans. on Power Electronics, Vol. 3, No. 2, April 1988, pp. 105-117.
- [3] P. C. Sen, "Electric Motor Drives and Control-Past, Present, and Future", IEEE Trans. on Ind. Elec., Vol. 37, No. 6, December 1990, pp. 562-575.
- [4] A. B. Plunkett, J. D. Datre, and T. A. Lipo, "Synchronous Control of a Static Ac Induction Motor Drive," IEEE Trans. on Ind. Appl., Vol IA-15, No. 4, July/August 1979, pp. 430-437.
- [5] E. Levi, A. Boglietti and M. Lazzari, "Comparative Study of Detuning Effects in Indirect Rotor Flux Oriented Induction Machines due to Iron Core Losses," International Conference on Power Electronics and Drive Systems, Feb. 1995, pp639-644.
- [6] N. Matsui, "Recent Trends In Ac Motion Control," IEEE IECON'92, 1992, pp. 25-30.
- [7] K. Kamiyama, T. Ohmae, and T. Sukegawa, "Application Trends In Ac Motor Drives", IEEE IECON'92, 1992, pp. 31-36.

- [8] H. H. Huffman, "Introduction to Solid-State Adjustable Speed Drives", IEEE Trans. on Ind. Appl., Vol. 26, No. 4, July/August 1990, pp. 671-678.
- [9] D. W. Novotny And R D. Lorenz, "Introduction to Field Orientation And High Performance Ac Drives", In Tutorial Course Rec., IEEE-IAS Annual Meeting Conf. Rec., 1985, Section 1 and 6.
- [10] D. W. Novotny and T. A. Lipo, Vector Control and Dynamics of AC Drives, Oxford University Press, 1997.
- [11] Bech, M. M.; Pedersen, J.K.; Blaabjerg, F. "Field-Oriented Control of an Induction Motor Using Random Pulsewidth Modulation", Industry Applications, IEEE Transactions on Volume 37, Issue 6, Nov.-Dec. 2001 Page(s):1777 – 1785.
- [12] Wolbank, T. A.; Moucka, A.; Machl, J.L. "A Comparative Study of Field-Oriented and Direct-Torque Control of Induction Motors Reference to Shaft-Sensorless Control at Low and Zero-Speed", Intelligent Control, 2002. Proceedings of the 2002 IEEE International Symposium on Oct. 2002 Page(s):391 – 396.
- [13] Yi-Hwa Liu; Chern-Lin Chen; Rong-Jie Tu, "A Novel Space-Vector Current Regulation Scheme for a Field-Oriented-Controlled Induction Motor Drive" Industrial Electronics, IEEE Transactions on Volume 45, Issue 5 Oct. 1998 Page(s):730 – 737.
- [14] R. D. Lorentz, T. A. Lipo and D. W. Novotny, "Motion Control with

- Induction Motors,” IEEE Proceeding, vol.82, no.8, 1994, pp.1215-1240.
- [15] F. Blaschke, “The Principle of Field Orientation as Applied to the New Transvector Closed-Loop Control System for Rotating Field Machines,” Siemens Rev., Vol.34, 1972, pp217-220.
- [16] K. H. Bayer, H. Waldmann and M. Webibelzahl, “ Field-Oriented Closed-Loop Control of A Synchronous Machine with New Transvector Control System,” Siemens Rev., vol.39, 1972, pp220-223.
- [17] G. John, W.Erdman, R. Hudson, ChiSheng Fan and S.Mahajan, “Stator Flux Estimation from Inverter Switching States for the Field Oriented Control of Induction Generators,” IEEE Industry Applications Conference, vol.1, 1995, pp182-188.
- [18] Hofmann, H. F.; Sanders, S.R.; EL-Antably, A.“Stator-Flux-Oriented Vector Control of Synchronous Reluctance Machines with Maximized Efficiency”,Industrial Electronics, IEEE Transactions on Volume 51,Issue 5,Oct. 2004 Page. 1066 – 1072.
- [19] T. A. Raghavendiran, A. S. Saleem and D. P. Job, “PC Based Rotor Flux Oriented Control of Induction Motors Using DSP,” IEEE Power Electronics, Drives and Energy Systems for Industrial Growth Conference, vol.1, Jan. 1996, pp207-210.
- [20] Rajashekara, K.,A.Kawamura and K.Matsuse,Ed.,Sensorless Control of AC Motor Drives.New York: IEEE Press,1996
- [21] Holtz,J.,Speed Estimation and Sensorless Control of AC Drives IEEE

PCC-Yokhama,pp.649-654,1994.

- [22] Harnefors,L.,”A Comparison Between Directly Parametrised Observers and Extended Kalamn Filters for Sensorless Induction Drives Motor ”Proceedings of the Power Electronics and Variable Speed Drives,Seventh International Conference,NO.456,pp.275-280,1998.
- [23] Elloumi, M., L. B. Brahim and M. A. AL-Hamadi, “Urvey of Speed Sensorless Controls for IM Drives”, Proceedings of the IECON 98,vo1.2,pp.1018-1023 1998.
- [24] Shi, K. L.; Chan, T.F.; Wong, Y. K.; Ho, S. L.;,“Speed Estimation of An Induction Motor Drive Using Extended Kalman Filter”, Power Engineering Society Winter Meeting, 2000. IEEE Volume 1,23-27 Jan. 2000 Vol.1 Page(s):243 – 248.
- [25] Qiu, A.; Bin Wu; Kojori, H.;,“Sensorless Control of Permanent Magnet Synchronous Motor Using Extended Kalman Filter”, Electrical and Computer Engineering, 2004. Canadian Conference on Volume 3,2-5 May 2004 Vol.3 Page(s):1557 – 1562.
- [26] Leite, A.V.; Araujo, R.E.; Freitas, D.,“Full and Reduced Order Extended kalman Filter for Speed Estimation in Induction Motor Drives: A Comparative Study”, Power Electronics Specialists Conference, 2004. PESC 04. 2004 IEEE 35th Annual Volume 3,20-25 June 2004 Vol.3 Page(s):2293 – 2299.
- [27] Li Cai; Yinhai Zhang; Zhongchao Zhang;,”Application of Genetic

Algorithms in EKF for Speed Estimation of An Induction Motor”, Power Electronics Specialist Conference, 2003. PESC '03. 2003 IEEE 34th Annual Volume 1,15-19 June 2003 vol.1 Page(s):345 – 349.

[28] Shi, K. L.; Chan, T.F.; Wong, Y.K.; Ho, S.L.;,“Speed Estimation of An Induction Motor Drive Using An Optimized Extended Kalman Filter”, Industrial Electronics, IEEE Transactions on Volume 49,Issue 1,Feb. 2002 Page(s):124 – 133.

[29] Barut, M.; Bogosyan, O.S.; Gokasan, M.;,“An EKF Based Reduced Order Estimator for the Sensorless Control of IMs”, Control Applications, 2003. CCA 2003. Proceedings of 2003 IEEE Conference on Volume 1,23-25 June 2003 vol.2 Page(s):1256 – 1261.

[30] Barut, M.; Bogosyan, O.S.; Gokasan, M.;,“EKF Based Estimation for Direct Vector Control of Induction Motors”, IECON 02 [Industrial Electronics Society, IEEE 2002 28th Annual Conference of the] Volume 2,5-8 Nov. 2002 vol.2 Page(s):1710 – 1715.

[31]Wang Yaonan; Lu Jiantao; Huang Shoudao; Qiu Sihai,“Speed Sensorless Vector Control of Induction Motor Based on the MRAS Theory”, Power Electronics and Motion Control Conference, 2004. IPEMC 2004. The 4th International Volume 2,14-16 Aug. 2004 Page(s):645 – 648.

[32] Shoudao Huang; Yaonan Wang; Jian Gao; Jiantao Lu; Sihai Qiu,“The Vector Control Based on MRAS Speed Sensorless Induction Motor Drive”Intelligent Control and Automation, 2004. WCICA 2004. Fifth World Congress on Volume 5,15-19 June 2004 Vol.5 Page(s):4550 –

4553.

- [33] Cirrincione, M.; Pucci, M., "An MRAS-based Sensorless High Performance Induction Motor Drive with A Predictive Adaptive Model", Industrial Electronics, IEEE Transactions on Volume 52, Issue 2, April 2005 Page(s):532 – 551.
- [34] Hu Jun; Duggal, B.R.; Vilathgamuwa, M., "A MRAS-Based Speed Sensorless Field Oriented Control of Induction Motor with On-Line Stator Resistance Tuning", Power Electronic Drives and Energy Systems for Industrial Growth, 1998. Proceedings. 1998 International Conference on Volume 1, 1-3 Dec. 1998 Page(s):38 – 43.
- [35] Rashed, M.; Stronach, F.; Vas, P., "A Stable MRAS-Based Sensorless Vector Control Induction Motor Drive at Low Speeds", Electric Machines and Drives Conference, 2003. IEMDC'03. IEEE International Volume 1, 1-4 June 2003 Page(s):139 – 144.
- [36] Cao-Minh Ta; Uchida, T.; Hori, Y., "MRAS-Based Speed Sensorless Control for Induction Motor Drives Using Instantaneous Reactive Power", Industrial Electronics Society, 2001. IECON '01. The 27th Annual Conference of the IEEE Volume 2, 29 Nov.-2 Dec. 2001 vol.2 Page(s):1417 – 1422.
- [37] Rashed, M.; Stronach, F.; Vas, P., "A new Stable MRAS-Based Speed and Stator Resistance Estimators for Sensorless Vector Control Induction Motor Drive at Low Speeds", Industry Applications Conference, 2003. 38th IAS Annual Meeting. Conference Record of the Volume 2, 12-16 Oct. 2003 vol.2 Page(s):1181 – 1188.

- [38] Zhen, L.; Xu, L., "Sensorless Field Orientation Control of Induction Machines Based on A Mutual MRAS Scheme", Industrial Electronics, IEEE Transactions on Volume 45, Issue 5, Oct. 1998 Page(s):824 – 831.
- [39] Young Ahn Kwon; Dae Won Jin, "A Novel MRAS Based Speed Sensorless Control of Induction Motor", Industrial Electronics Society, 1999. IECON '99 Proceedings. The 25th Annual Conference of the IEEE Volume 2, 29 Nov.-3 Dec. 1999 vol.2 Page(s):933 – 938.
- [40] M. S. Nait Said, M.E.H. Benbouzid, "Induction Motors Direct Field Oriented Control with Robust On-Line Tuning of Rotor Resistance", IEEE Trans. on Energy Conversion, Vol. 14, Dec. 1999, pp. 1038 -1042.
- [41] D. Telford, M.W. Dunnigan, B.W. Williams, "On-Line Identification of Induction Machine Electrical Parameters for Vector Control Loop Tuning", IEEE Trans. on Industrial Electronics, Vol. 50, April 2003, pp. 253-261.
- [42] H. A. Toliyat, M.S. Arefeen, K.M. Rahman, D. Figoli, "Rotor Time Constant Updating Scheme for A Rotor Flux-Oriented Induction Motor Drive", IEEE Trans. on Power Electronics, Vol. 14, Sept. 1999, pp. 850-857.
- [43] R. Marino, S. Peresada, P. Tomei, "Global Adaptive Output Feedback Control of Induction Motors with Uncertain Rotor Resistance", IEEE Trans. on Automatic Control, Vol. 44, May 1999, pp. 967-983.

- [44] F. Alonge, F. D'Ippolito, G. Ferrante, F.M. Raimondi, "Parameter Identification of Induction Motor Model Using Genetic Algorithms", IEE Proc. on Control Theory and Applications, Vol. 145, Nov. 1998, pp. 587-593.
- [45] Seok Ho Jeon, Kwang Kyo Oh, Jin Young Choi, "Flux Observer with On-Line Tuning of Stator and Rotor Resistances for Induction Motors", IEEE Trans. on Industrial Electronics, Vol. 49, June 2002, pp. 653-664.
- [46] J.W. Finch, D.J. Atkinson, P.P. Acarnley, "Full-Order Estimator for Induction Motor States and Parameters", IEE Proc. on Electric Power Applications, Vol. 145, May 1998, pp. 169-179.
- [47] W.-J. Wang, C.-C. Wang, "Composite Adaptive Position Controller for Induction Motor Using Feedback Linearisation", IEE Proc. Control Theory and Applications, Vol. 145, Jan.
- [48] K. Akatsu, A. Kawamura, "Sensorless Very Low-Speed and Zero-Speed Estimations with On-Line Rotor Resistance Estimation of Induction Motor Without Signal Injection", IEEE Trans. on Industry Applications, Vol. 36, May-June 2000, pp. 764-771.
- [49] R. E. Araujo, D.S. Freitas, J.J. Goncalves, "An Instrument for Measurement of Induction Motor Drives Based on Phasor and Modelling Techniques", IEEE Trans. on Energy Conversion, Vol. 14, Sept. 1999, pp. 704-711.
- [50] G. Bartolini, A. Pisano, P. Pisu, "Simplified Exponentially Convergent

Rotor Resistance Estimation for Induction Motors”, IEEE Trans. on Automatic Control, Vol. 48, Feb 2003, pp. 325 -330.

[51] R. Marino, S. Peresada, P. Tomei, “On-Line Stator and Rotor Resistance Estimation for Induction Motors”, IEEE Trans. on Control Systems Technology, Vol. 8, May 2000, pp. 570-579.

[52] D. W. Novotny and T. A. Lipo “Vector Control and Dynamics of AC Drives”, Department of Electrical and Computer Engineering University of Wisconsin-Madison Wisconsin, USA.

[53] 李宜虎, “新型感應馬達轉子磁場導向最大轉矩控制策略,” 國立清華大學電機工程研究所碩士論文, 民國九十一年。

[54] 林世彬, “應用於感應馬達驅動器之雙定結構滑模控制器,” 國立清華大學電機工程研究所碩士論文, 民國九十一年。

[55] 彭世興, “具線上參數調適之無測速器感應馬達驅動技術,” 國立台灣科技大學電機工程研究所博士論文, 民國八十七年。