

参考文献

- [1] S. B. Kjaer, J. K. Pedersen and F. Blaabjerg, "A Review of Single-Phase Grid-Connected Inverters for Photovoltaic Modules," IEEE Transactions on Industry Applications, vol. 41, No. 5 September/October 2005, pp. 1292-1306.
- [2] Y. Xue, L. Chang, S. B. Kjaer, J. Bordonau and T. Shimizu, "Topologies of Single-Phase Inverters for Small Distributed Power Generator: An Overview," IEEE Transactions on Power Electronics, vol. 19, No. 5 September 2004, pp. 1305-1314.
- [3] H. Watanabe, T. Shimizu and G. Kimura, "A Novel Utility Interactive Photovoltaic Inverter with Generation Control Circuit," Industrial Electronics Society Conference, IECON , IEEE 24th Annual ,vol. 2, August 1998, pp. 721-725.
- [4] M. Nagao and K. Harada, "Power Flow of Photovoltaic System using Buck-Boost PWM Power Inverter," Power Electronics and Drive Systems, PEDS , Proceedings, IEEE International Conference on, vol. 1, May 1997, pp. 144-149.
- [5] Y. C. Kuo, T. J. Liang and J. F. Chen, "Novel Maximum-Power-Point-Tracking Controller for Photovoltaic Energy Conversion System," IEEE Transactions on Industrial Electronics, vol.48, No. 3 June 2001, pp. 594-601.
- [6] N. Kasa, T. Iida and L. Chen, "Flyback Inverter Controlled by Sensorless Current MPPT for Photovoltaic Power System," IEEE

Transactions on Industrial Electronics, vol.52, No. 4 August 2005, pp. 1145-1152.

[7] F. Belkacem, D. Diallo and G. A. Capolino, "Design and Control of A Low Power DC-AC Converter Fed by a Photovoltaic Array," Industry Application Conference, IAS , IEEE 39th Annual Meeting, vol. 2, October 2004, pp. 1161-1164.

[8] N. Femia, G. Petrone, G. Spagnuolo and M. Vitelli, "Optimizing Sampling Rate of P&O MPPT Technique," Power Electronic Specialist Conference, PESC, IEEE 35th Annual, vol. 3, June 2004, pp. 1939-1944.

[9] N. Femia, G. Petrone, G. Spagnuolo and M. Vitelli, "Optimizing Duty-cycle Perturbation of P&O MPPT Technique," Power Electronic Specialist Conference, PESC, IEEE 35th Annual, vol. 3, June 2004, pp. 1945-1949.

[10] N. Femia, G. Petrone, G. Spagnuolo and M. Vitelli, "Optimization of Perturb and Observe Maximum Power Point Tracking Method," IEEE Transactions on Power Electronics, vol. 20, No. 4, July 2005, pp. 963-973.

[11] T. Y. Kim, H. G. Ahn, S. K. Park and Y. K. Lee, "A Novel Maximum Power Point Tracking Control for Photovoltaic Power System Under Rapidly Changing Solar Radiation," International Symposium on Industry Electronics, ISIE, vol. 2, June 2001, pp. 1011-1014.

[12] S. Jain and V. Agarwal, "A New Algorithm for Rapid Tracking of

Approximate Maximum Power Point in Photovoltaic Systems,”
IEEE Power Electronics Letters, vol. 2, No. 1, March 2004 , pp.
16-19.

[13] C. T. Pan, J. Y. Chen, C. P. Chu and Y. S. Hung, “A Fast Maximum
Power Point Tracker for Photovoltaic Power Systems,” Industrial
Electronics Society, IECON, IEEE 25th Annual Conference, vol. 1,
December 1999 , pp. 390-393.

[14] M. Liserre, R. Teodorescu and F. Blaabjerg, “Stability of
Photovoltaic and Wind Turbine Grid-Connected Inverters for a
Large Set of Grid Impedance Values,” IEEE Transactions on Power
Electronics, vol. 21, No. 1, January 2006, pp. 263-272.

[15] T. Abeyasekera, C. M. Johnson, D. J. Atkinson and M. Armstrong,
“Suppression of Line Voltage Related Distortion in Current
Controlled Grid Connected Inverters,” IEEE Transactions on Power
Electronics, vol. 20, No. 6, November 2005, pp. 1393-1401.

[16] E. Twining and D. G. Holmes, “Grid Current Regulation of a
Three-Phase Voltage Source Inverter with an LCL Input Filter,”
IEEE Transactions on Power Electronics, vol. 18, No. 3, May 2003,
pp. 888-895.

[17] P. C. Loh and D. G. Holmes, “Analysis of Multiloop Control
Strategies for LC/CL/LCL-Filtered Voltage-Source and
Current-Source Inverters,” IEEE Transactions on Industry
Applications, vol. 41, No. 2, March/April 2005, pp. 644-654.

- [18] G. Shen, D. Xu, D. Xi and X. Yuan, "An Improved Control Strategy for Grid-Connected Voltage Source Inverters with a LCL Filter," Applied Power Electronics Conference and Exposition, APEC, March 2006, IEEE 21st Annual , pp. 1067-1073.
- [19] P. Teodorescu, F. Blaabjerg, U. Borup and M. Liserre, "A New Control Structure for Grid-Connected LCL PV Inverters with Zero Steady-State Error and Selective Harmonic Compensation," Applied Power Electronics Conference and Exposition, APEC, IEEE 19th Annual , March 2004, , pp. 580-586.
- [20] D. N. Zmood and D. G. Holmes, "Stationary Frame Current Regulation of PWM Inverters with Zero Steady State Error," Power Electronic Specialist Conference, PESC , IEEE 30th Annual, vol. 2, July 1999, pp. 1158-1190.
- [21] D. N. Zmood and D. G. Holmes, "Stationary Frame Current Regulation of PWM Inverters with Zero Steady State Error," IEEE Transactions on Power Electronic, vol. 18, No. 3, May 2003, pp. 814-822.
- [22] D. N. Zmood, D. G. Holmes and G. H. Bode, "Frequency-Domain Analysis of Three-Phase Linear Current Regulators," IEEE Transactions on Industry Applications, vol. 37, No. 2, March/April 2001, pp. 601-610.
- [23] T. Shimizu, K. Wada and N. Nakamura, "A Flyback-type Single Phase Utility Interactive Inverter with Low-Frequency Ripple Current Reduction on the DC Input for an AC Photovoltaic Module

System,” Power Electronic Specialist Conference, PESC , IEEE 33rd Annual, vol. 3, June 2002, pp. 1483-1488.

[24] 廖常興，「市電並聯型之光伏風力混成型發電系統之研製」，清華大學碩士論文，九十三年七月。

[25] 唐宗賓，「市電並聯型光伏系統之研製」，清華大學碩士論文，八十九年七月。

[26] T. Brekken, Chris Henze, L. R. Moummeh and N. Mohan, “Utility-Connected Power Converter for Maximizing Power Transfer From a Photovoltaic Source While Drawing Ripple-Free Current,” Power Electronic Specialist Conference, PESC , IEEE 33rd Annual, vol. 3, June 2002, pp. 1518-1522.

[27] A. Kotsopoulos, J. L. Duarte and M. A. M. Hendrix, “Predictive DC Voltage Control of Single-Phase PV Inverters with Small DC Link Capacitance,” IEEE International Symposium on Industrial Electronics, ISIE’03, vol. 2, June 2003, pp. 793-797.

[28] G. F. Franklin, J. D. Powell and A. Emami-Naeini, “Feedback Control of Dynamic Systems 4/e,” Prentice Hall International Editions, 2002.

[29] S. B. Kjaer and F. Blaabjerg, “Design optimization of a single phase inverter for photovoltaic applications,” Power Electronics Specialist Conference, PESC , IEEE 34th Annual, vol. 3, June 2003, pp. 1183-1190.

- [30] T. Hirao, T. Shimizu, M. Ishikawa and K. Yasui, "Discussion on Modulation Methods for Flyback-type Single-Phase Inverters with Enhanced Power Decoupling for Photovoltaic AC Module Systems," International Power Electronics Conference, IPEC , April 2005.
- [31] Y. Suh, V. Tijeras and T. A. Lipo, "A Nonlinear Control of the Instantaneous Power in dq Synchronous Frame for PWM AC/DC Converter under Generalized Unbalanced Operating Conditions," Industry Application Conference, IAS , IEEE 37th Annual Meeting, vol. 2, October 2002, pp. 1161-1164.
- [32] A. V. Stankovic and T. A. Lipo, "A Novel Control Method for Input Output Harmonic Elimination of the PWM Boost Type Rectifier Under Unbalanced Operating Conditions," IEEE Transactions on Power Electronics, vol. 16 , No. 5, September 2001, pp. 603-611.
- [33] H. C. Chen, S. H. Li and C. M. Liaw, "Switch-Mode Rectifier with Digital Robust Ripple Compensation and Current Waveform Controls," IEEE Transactions on Power Electronics, vol. 19, No. 2 March 2004, pp. 560-566.
- [34] N. Mutoh and T. Inoue, "A Controlling Method for Charging Photovoltaic Generation Power Obtained by a MPPT Control Method to Series Connected Ultra-Electric Double Layer Capacitors," Industry Application Conference, IAS , IEEE 39th Annual Meeting, vol. 4 , October 2004, pp. 2264-2271.

- [35] R. D. Middlebrook, "Small-Signal Modeling of Pulse-Width Modulated Switched-Mode Power Converters," Proceedings of the IEEE, vol. 76, No. 4, April 1988, pp. 343-354.
- [36] N. Mohan, T. M. Undeland and W. P. Robbins, "Power Electronics: Converters, Application and Design 3/e," John Wiley & Sons, Inc. 2003.
- [37] 阮昱霖,「整合型高性能三相升壓型交直流轉換器」,清華大學碩士論文,九十二年七月。
- [38] 蘇奎峰,呂強,耿慶鋒,陳聖儉,「TMS320F2812 原理與開發」,電子工業出版社,二〇〇五年一月。
- [39] 張天錫,「電力電子學」,第三版,東華書局,九十三年九月。