

REFERENCES

REFERENCES

1. Chetan Singh Solanki, "Solar Photovoltaic: Fundamentals, Technology and Applications", PHI learning's pvt. Ltd., Second edition, January 2012.
2. B. H. Khan, "Non-Conventional Energy Resources", TATA Mc Graw Hill, Second Edition.
3. Roger Messenger, Jerry Ventre, "Photovoltaic Engineering", Boca Raton, CRC Press, 2000
4. G.N.Tiwari, "Solar Energy: Fundamentals, Design, Modelling and Applications" Narosa Publishing House, New Delhi, India, pp 452-487 , 2002.
5. D. W. Hart "Power Electronics" first Edition., New York: 2011.
6. N. Mohan, W. P. Robbin, and T. Undeland, "Power Electronics: Converters, Applications, and Design", 2nd Edition, New York, Wiley,1995
7. Mukund R. Patel, "Wind and Solar Power Systems", Boca Raton, CRC Press, 1999
8. Study on Solar Photovoltaic Industry: ISA-NMCC (2008): "Solar PV Industry: Global and Indian Scenario" <http://www.iesaonline.org>, September 2008.
9. Punitha. K, Thesis "Development and Implementation of MPPT and Inverter Control Algorithm for Solar Photovoltaic System" submitted for the degree of Ph.D in Kalasalingam University, 2014.
10. The Rising Sun, A Point of View on The Solar Energy Sector in India, www.kmpg.com/IN/en/IssuesAndInsights/ToughLeadership/The_Rising_Sun_full.pdf, May- 2011.
11. Erhan Demirok, Dezso Sera, Remus Teodorescu, Pedro Rodriguez, U. Borup, "Clustered PV Inverters in LV Networks: An Overview of Impacts and Comparison of Voltage Control Strategies", 2009 IEEE Electrical Power and Energy Conference, Montreal, Canada, 22 – 23 October 2009.
12. Paidipati. J, L. Frantzis, H. Sawyer and A. Kurrasch, "Rooftop Photovoltaic Market Penetration Scenarios." NREL/SR-581-42306, 2008.
13. Prayas Energy Group, "Solar Rooftop PV in India Need to Prioritize in-situ Generation for Self Consumption with a Net-metering Approach", Prayas Policy Discussion Paper November 2012.
14. M. Kasper, D. Bortis, T. Friedli and J. W. Kolar, "Classification and Comparative Evaluation of PV Panel Integrated DC-DC Converter Concepts", IEEE Power Electronics and Motion Control conference (EPE/PEMC), pp.LS1e.4-1-LS1e.4-8, 2012.

15. Kharb. R., Ansari. M.D. and Shimi. S. "Design and Implementation of ANFIS Based MPPT Scheme with Open Loop Boost Converter for Solar PV Module". *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, 3, 2320-3765, 2014.
16. Bataineh, K.M. and Hamzeh, A. "Efficient Maximum Power Point Tracking Algorithm for PV Application under Rapid Changing Weather Condition". *ISRN Renewable Energy*, Article ID: 673840, 2014.
17. Heydari-Doostabad. H., Keypour. R., Khalghani. M. and Khooban. M. "A New Approach in MPPT for Photovoltaic Array Based on Extremum Seeking Control Under Uniform and Non-Uniform Irradiances". *Solar Energy*, 94, 28-36, 2013.
18. M.S.Sivagamasundari, Dr.P.Melba Mary, V.K.Velvizhi, "Maximum Power Point Tracking For Photovoltaic System by Perturb and Observe Method Using Buck Boost Converter", *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, Vol. 2, Issue 6, pp. 2433—2439, June 2013.
19. D. Sera, T. Kerekes, R. Teodorescu, and F. Blaabjerg, "Improved MPPT Algorithms for Rapidly Changing Environmental Conditions," in *IEEE Power Electronics and Motion Control Conference (EPE-PEMC)*, pp. 1614-1619, 2006.
20. Anees. A.S. "Grid Integration of Renewable Energy Sources: Challenges, Issues and Possible Solutions". *5th IEEE International Conference on Power Electronics (IICPE)*, Page(s):1- 6, 2012.
21. Daniel T. Cotfas, Petru A. Cotfas, Doru Ursutiu and Cornel Samoila, "The Methods to Determine the Series Resistance and the Ideality Factor of Diode for Solar Cells-Review", *Optimization of Electrical and Electronics Equipment*, pp 966-972, 2012.
22. Yuncong Jiang, Qahouq. J.A.A, Orabi. M., "AC PV Solar System Distributed Architecture With Maximum Power Point Tracking," *IEEE 34th International Telecommunications Energy Conference (INTELEC)*, pp.I,5, Sept. 30 2012-Oct. 4 2012.
23. Spertino. F, Di Leo. P, Corona. F, Papandrea, F., "Distributed Generation Systems (PEDG)" *3rd IEEE International Symposium on Power Electronics for IEEE Conference Publications* , Page(s): 564 – 569, 2012
24. A. F. Murtaza, H. A. Sher, M. Chiaberge, D. Boero, M. D. Giuseppe, and K. E. Addoweesh, "A Novel Hybrid MPPT Technique for Solar PV Applications Using Perturb and Observe and Fractional Open Circuit Voltage Techniques". *15th International Symposium MECHATRONIKA*, pp. 1-8, Dec. 2012.

25. Sonal Panwar and Dr. R.P. Saini , “Development and Simulation of Solar Photovoltaic Model Using Matlab/simulink and its Parameter Extraction” Proc. International Conference on Computing and Control Engineering (ICCCE 2012),12-13 April 2012.
26. Zameer Ahmad and S.N. Singh, “Extraction of the Internal Parameters of Solar Photovoltaic Module by Developing Matlab / Simulink Based Model”, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol.7 No.11, 2012.
27. N. Shah, R. Chudamani, “Single-Stage Grid Interactive PV System Using Novel Fuzzy Logic Based MPPT With Active and Reactive Power Control”, Industrial Electronics and Applications (ICIEA), 7th IEEE Conference, pp. 1667 – 1672, 18-20 July 2012.
28. D. Rekioua and E. Matagne, “Optimization of Photovoltaic Power Systems, Modelization, Simulation and Control”, Springer, 2012.
29. Bataineh. K.M. and Dalalah. D. “Optimal Configuration for Design of Stand-Alone PV System”. Smart Grid and Renewable Energy, **3**, 139-147, 2012.
30. I. V. Banu and M. Istrate, “Modeling of Maximum Power Point Tracking Algorithm for Photovoltaic Systems,” Proceedings of the International Conference and Exposition on Electrical and Power Engineering (*EPE*), pp. 953-954, 2012.
31. Firoz Khan, S.N.Singh. M.Husain, “Determination of The Diode Parameters of a Si and Cdte Solar Modules Using Variation of Intensity of Illumination: an Application”, Solar Energy 85, pp.2288-2294, 2011.
32. S. Sheik Mohammed, “Modeling and Simulation of Photovoltaic Module using MATLAB/Simulink”, International Journal of Chemical and Environmental Engineering Volume 2, No.5, October 2011.
33. J.Surya Kumari, Ch. Sai Babu and J. Yugandhar, “Design and Investigation of Short Circuit Current Based Maximum Power Point Tracking for Photovoltaic System”, International Journal of Research and Reviews in Electrical and Computer Engineering (IJRRECE) Vol. 1, No. 2, June2011.
34. A. Anwar and H. Pota, “Loss Reduction of Power Distribution Network Using Optimum Size and Location of Distributed Generation”, 21st Australasian Universities Power Engineering Conference (AUPEC), pp. 1–6, Sept. 2011.
35. W.Omran, M. Kazerani, and M. Salama, “Investigation of Methods for Reduction of Power Fluctuations Generated from Large Grid Connected Photovoltaic Systems”, IEEE Transactions on Energy Conversion, vol. 26, no. 1, pp. 318–327, March 2011.
36. Abdelsalam, A.K., et al., “High-Performance Adaptive Perturb and Observe MPPT Technique for Photovoltaic-Based Micro-grids”. Power Electronics, IEEE Transactions 26(4): p. 1010-1021, 2011.

37. J. J. Nedumgatt, K. B. Jayakrishnan, S. Umashankar, D. Vijayakumar, and D. P. Kothari, "Perturb and Observe MPPT Algorithm for Solar PV Systems-modeling and Simulation," Annual IEEE India Conference (INDICON), pp. 1–6, Dec. 2011
38. Y. H. Ji, D. Y. Jung, J. G. Kim, J. H. Kim, T. W. Lee, and C. Y. Won, "A Real Maximum Power Point Tracking Method for Mismatching Compensation in PV Array Under Partially Shaded Conditions," IEEE Trans. on Power Electronics., vol. 26, no. 4, pp. 1001–1009, Apr. 2011.
39. G. M. Tina and F. Pappalardo, 'Grid-Connected Photovoltaic System with Battery Storage System into Market Perspective', Proc. of the 1st IEEE-PES/IAS Conference on Sustainable Alternative Energy, pp. 1-7, Valencia, Spain, 2009.
40. Azadeh Safari and Saad Mekhilef, "Simulation and Hardware Implementation of Incremental Conductance MPPT with Direct Control Method Using Cuk Converter", IEEE Transaction on Industrial Electronics, Vol.58, no.4. 2011.
41. Fernández-Infantes, A., Contreras, J. And Bernalagustín, J.L., "Design of Grid Connected PV Systems Considering Electrical, Economical and Environmental Aspects: A Practical Case". Renewable Energy, **31**(13), 2042-2062, 2006.
42. D.H.Lee and N.J.Kim, "Study on Characteristic Analysis and Simulation Modeling of Thin Film Solar Cell", Power Electronics Annual Conference, pp.255-256, Nov, 2011.
43. A.Bilsalam, J.Haema, I.Boonyaroonate and V.Chunkag, "Simulation and Study of Photovoltaic Cell Power Output Characteristics with Buck Converter Load", Conference record on *ICPE*, pp. 3033-3055, 2011.
44. A. Blorfan, D. Flieller, P. Wira, G. Sturtzer, J. Merckle, "A New Approach for Modeling the Photovoltaic Cell Using Orcad Comparing with the Model Done in Matlab " International Review on Modelling and Simulations (I.RE.MO.S.), Vol. 3, N. 5, October 2010.
45. Stjepanovic, Aleksandar softic, ferid, Bundalo, zlatko, Stjepanovic, stadjana, "Solar Tracking System and Modelling of PV module", MIPRO International convention, pp. 105-109, 2010.
46. H. Liu, L. Jin, D. Le, and A. Chowdhury, Impact of High Penetration of Solar Photovoltaic Generation on Power System Small Signal Stability, International Conference on Power System Technology (POWERCON), pp. 1–7. Oct. 2010.
47. Yuncong Jiang, Qahouq. A.A., Batarseh. I., "Improved Solar PV Cell Matlab Simulation Model and Comparison," Proceedings of IEEE International Symposium on Circuits and Systems (ISCAS), pp.2770,2773, May 30-2010-June 2-2010.

48. K. S. Myers, S. A. Klein, and D. T. Reindl, "Assessment of High Penetration of Solar Photovoltaic in Wisconsin, Energy Policy, vol. 38, no. 11, pp. 7338–7345, 2010.
49. R. Sridhar, Dr. Jeevananathan, N. Thamizh Selvan, Saikat Banerjee, "Modeling of PV Array and Performance Enhancement by MPPT Algorithm", International Journal of Computer Applications (0975 – 8887) Volume 7– No.5, September 2010.
50. Hairul Nissah Zainudin, Saad Mekhilef, "Comparison Study of Maximum Power Point Tracker Techniques for PV Systems", Cairo University, Egypt, Paper ID 278, December 19-21, 2010.
51. M. Liserre, T. Sauter, and J. Y. Hung, "Future Energy Systems: Integrating Renewable Energy Sources in to The Smart Power Grid Through Industrial Electronics," IEEE Ind. Electron. Mag., vol. 4, no. 1, pp. 18–37, Mar.2010.
52. S. Gonzalez, S. Kuszmaul, D. Deuel, R.Lucca, "PV Array Simulator Development and Validation", 25th IEEE photovoltaic Specialists Conference (PVSC), pp.002849-002852, 2010.
53. Arun Kumar Verma, Bhim Singh and S.C Kaushik, "An Isolated Solar Power Generation using Boost Converter and Boost Inverter", Proc. National Conference on Recent Advances in Computational Technique in Electrical Engineering, SLITE, Longowal (India), paper 3011, pp.1-8, 19-20 March, 2010.
54. Y. M. Chen, H. C. Wu, Y. C. Chen, K. Y. Lee, and S. S. Shyu, "The AC Line Current Regulation Strategy for The Grid-Connected PV System," IEEE Trans. Power Electron., vol. 25, no. 1, pp. 209–218, Jan. 2010.
55. Chao. K. and Li. Ch. "An Intelligent Maximum Power Point Tracking Method Based on Extension Theory for PV Systems". Expert Systems with Applications, vol. 37, pp. 1050-1055, 2010
56. Nian Chun Wang, Zuo Sun, K. Yukita, Y. Goto, K. Ichiyanagi, "Research of PV Model and MPPT Methods in Matlab," Asia-Pacific Power and Energy Engineering Conference (APPEEC 2010), pp.1-4, 28-31 March 2010.
57. J.Enslin, 'Network Impacts of High Penetration of Photovoltaic Solar Power Systems, IEEE Power and Energy Society General Meeting, pp. 1–5, July 2010
58. Brunton. S.L., et al., "Maximum Power Point Tracking for Photovoltaic Optimization Using Ripple-Based Extremum Seeking Control". Power Electronics, IEEE Transactions, 25(10), p. 2531-2540, 2010.
59. Huan-Liang Tsai, Ci-Siang Tu, and Yi-Jie Su, Member, "Development of Generalized Photovoltaic Model Using MATLAB/SIMULINK," Proceedings of the World

- Congress on Engineering and Computer Science WCECS, San Francisco, USA, October 22 - 24, 2008,
60. M. G. Villalva, J. R. Gazoli, E. Ruppert F, "Comprehensive Approach to Modeling and Simulation of Photovoltaic Arrays", *IEEE Transactions on Power Electronics*, vol. 25, no. 5, pp. 1198--1208, 2009.
 61. Xianglin zhu, zhiling liao, "Energy Management for Stand-Alone PV System", *CCCM, ISECS International Colloquium*, pp. 311-314. 2009.
 62. D. P. Hohm and M. E. Ropp, "Comparative study of maximum power point tracking algorithms," in *Proc. 28th IEEE Photovoltaic Specialists Conf.*, pp. 1699–1702, Sep. 2000.
 63. N.Femia, G.Petrone, GSpagnuolo and M.Vitelli, "Optimizing Duty-cycle Perturbation of P&O MPPT Technique," *IEEE Power Electronics Specialists Conferenre, Aochen, Germay*. 2004
 64. C. A. P. Tavares, K. T. F. Leite, W. I. Suemitsu, M. D. Bellar, "Performance Evaluation of Photovoltaic Solar System with Different MPPT Methods," *Industrial Electronics, IECON '09. 35th Annual Conference of IEEE*, pp.719-724, 3-5 Nov. 2009.
 65. Ting-Chung Yu, Yi-Ting Shen, "Analysis and Simulation of Maximum Power Point Tracking for Photovoltaic Systems," *Proceedings of the 30th ROC Symposium on Electrical Power Engineering, Taoyuan, Taiwan*, pp. 92-96, Nov. 28-29, 2009.
 66. A. Canova, L. Giaccone, F. Spertino, and M. Tartaglia, "Electrical Impact of Photovoltaic Plant in Distributed Network, *IEEE Transactions on Industry Applications*, vol. 45, no. 1, pp. 341–347, Jan.-Feb. 2009.
 67. G. M. S. Azevedo, M. C. Cavalcanti, K. C. Oliveira, F. A. S. Neves, and Z. D. Lins,"Comparative Evaluation of Maximum Power Point Tracking Methods for Photovoltaic Systems," *Journal of Solar Energy Engineering*, vol. 131, no. 3, p. 31006, Aug. 2009.
 68. L. Chun-xia and L. Li-qun, "An Improved Perturbation and Observation MPPT Method of Photovoltaic Generate System," in *4th IEEE Conference on Industrial Electronics and Applications, ICIEA*, pp. 2966–2970, May. 2009.
 69. Jenifer, A.; Newlin, N.R.; Rohini, G. ; Jamuna, V., "Development of Matlab Simulink Model for Photovoltaic Arrays," *2012 International Conference on Computing, Electronics and Electrical Technologies (ICCEET)*,pp.436,442, 21-22 March 2012.
 70. Marcelo Gradella Villalva, Jonas Rafael Gazoli, and Ernesto Ruppert Filho, "Comprehensive Approach to Modeling and Simulation of Photovoltaic Arrays", *IEEE Transaction on Power Electronics*, vol.24, no.5, May 2009.

71. C. Larbes, S.M.Ait Cheikh, T. Obeidi, A. Zerguerras, "Genetic Algorithms Optimized Fuzzy Logic Control for The Maximum Power Point Tracking in Photovoltaic System", Elsevier, Renewable Energy, vol.34, pp.2093-2100, Feb 2009.
72. Chao Zhang, Dean Zhao, "MPPT with Asymmetric Fuzzy Control for Photovoltaic System", IEEE 4th Conference on Industrial Electronics and Applications ICIEA, Xi'an, China. pp.2180-2183, May 2009.
73. M., Yang Gang, Chen Ming "Lab-View Based Simulation System for the Output Characteristics of PV Cells and the Influence of Internal Resistance on It," WASE International Conference on Information Engineering ,Vol.1, pp.391-394, 2009.
74. Johan H. R. Enslin, Mario S. Wolf, Daniel B. Snyman and Wernher Swiegers, "Integrated Photovoltaic Maximum Power Point Tracking Converter," IEEE Trans., Vol. 44, no.6, pp. 1036-1047, Aug .2009.
75. Muller. M.T., Rodriguez. J., Marion. B. "Performance Comparison of a BIPV Roofing Tile System in Two Mounting Configurations." National Renewable Energy Laboratory. NREL/CP-520-45948. Golden, CO, 2009.
76. G. R. Walker and P. e. Sernia, "Cascaded DC-DC Converter Connection of Photo Voltaic Modules," IEEE Trans. Power Electron., vol. 19, no. 4,pp. 1130-1139, 2004
77. Savita Nema, R.K.Nema, Gayatri Agnihotri. "Matlab/Simulink Based Study Of Photovoltaic Cells / Modules / Array and their Experimental Verification", International Journal Of Energy And Environment, Volume 1, Issue 3, pp.487-500, 2010.
78. M. Berrera, A. Dolara, R. Faranda and S. Leva, "Experimental Test Of Seven Widely-Adopted MPPT Algorithms", IEEE Bucharest Power Tech Conference, Bucharest, Romania, June 28th - July 2nd, 2009.
79. R. Schainker, R. Pollak, and B. Mehta, "Overview of CAES technology",Proceedings of the American Power Conference, Chicago, IL, USA, pp. 992-997, 1993.
80. Fangrui Liu, Yong Kang, Yu Zhang, Shanxu Duan, "Comparison of P&O and Hill Climbing MPPT Methods for Grid-Connected PV Converter," 3rd IEEE Conference on Industrial Electronics and Applications, (ICIEA 2008), pp.804-807, 3-5 June 2008.
81. A. Kumar and W. Gao, "Voltage Profile Improvement and Line Loss Reduction with Distributed Generation in Deregulated Electricity Markets, *TENCON, IEEE Region 10 Conference*, pp. 1-6, Nov. 2008
82. Cameron. C.P., Boyson. W.E., Riley, D.M., "Comparison of PV System Performance-Model Predictions with Measured PV System Performance", 33rd IEEE Photovoltaic Specialists Conference, 2008.

83. H. Patel and Y. Agarwal, "Maximum Power Point Tracking Scheme for PV Systems Operating Under Partially Shaded Conditions," *IEEE Trans. Ind. Electron.*, vol. 55, no. 4, pp. 1689-1698, Apr. 2008.
84. M. J. V. Vazquez, J. M. A. Marquez, and F. S. Manzano, "A Methodology for Optimizing Stand-Alone PV-System Size Using Parallel-Connected DC/DC Converters," *IEEE Trans. Ind. Electron.*, vol. 55, no. 7, pp. 2664– 2673, Jul. 2008.
85. W. Deng, W. Pei, and Z. Qi, "Impact and Improvement of Distributed Generation on Voltage Quality in Micro-Grid", *Third International Conference on Electric Utility Deregulation and Restructuring and Power Technologies*, pp. 1737–1741, April 2008.
86. R. J. Wai, W. H. Wang, and C. Y. Lin, "High-Performance Stand-Alone Photovoltaic Generation System," *IEEE Trans. Ind. Electron.*, vol. 55, no. 1, pp. 240–250, Jan. 2008.
87. S. P. Chowdhury, "Mathematical Modeling and Performance Evaluation of a Stand-Alone Polycrystalline PV Plant with MPPT Facility," *IEEE* 2008.
88. Patel. H., Agarwal. V. "MATLAB-Based Modeling to Study the Effects of Partial Shading on PV Array Characteristics," *IEEE Trans. Energy conversion*, Vol.23, No.1,2 pp.302-310, 2008.
89. Awang Jusoh, Tole Sutikno, Tan Kar Guan, Saad Mekhilef, "A Review on Favourable Maximum Power Point Tracking Systems in Solar Energy Application", *TELKOMNIKA*, Vol.12, No.1, pp. 6~22, ISSN: 1693-6930, March 2014.
90. T. Eswam and P. L. Chapman, "Comparison of Photovoltaic Array Maximum Power Point Tracking Techniques," *IEEE Trans. on Energy Converters.*, vol. 22, no. 2, pp. 439–449, Jun. 2007
91. M. Bashahu ,P. Nkundabakura, "Review and Tests of Methods for the Determination of the Solar Cell Junction Ideality Factors", *Solar Energy* 81, pp. 856–863, 2007.
92. Safari, A; Mekhilef, S "Simulation and Hardware Implementation of Incremental Conductance MPPT with Direct Control Method Using Cuk Converter," *Industrial Electronics, IEEE Transactions on*, vol.PP, no.99, pp.1-1, Odoi: 10.1109/TIE.2048834, 2010.
93. Srushti R. Chafle¹, Uttam B. Vaidya, "Incremental Conductance MPPT Technique for PV System", *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, Vol. 2, Issue 6, June 2013.
94. P. Rodriguez, A. V. Timbus, R. Teodorescu, M. Liserre, and F. Blaabjerg, "Flexible Active Power Control of Distributed Power Generation Systems During Grid Faults," *IEEE Trans. Ind. Electron.*, vol.54, no.5, pp. 2583– 2592, Oct.2007.

95. Nicola Femia, Giovanni Petrone, Giovanni Spagnuolo and Massimo Vitelli, "Optimization of Perturb and Observe Maximum Power point Tracking Method," IEEE transaction on power electronics, vol.20, no.4, 2005.
96. K.Nigim and W. J. Lee, "Micro Grid Integration Opportunities and Challenges", IEEE Power Engineering Society General Meeting, pp. 1–6, June 2007.
97. Saravana Selvan D., "Modeling and Simulation of Incremental Conductance MPPT Algorithm for Photovoltaic Applications", International Journal of Scientific Engineering and Technology, (ISSN: 2277-1581) Volume No.2, Issue No.7, pp : 681-685, 1 July 2013.
98. Jae-Ho Lee, Hyun Su Bae, Bo-Hyung Cho, "Advanced Incremental Conductance MPPT Algorithm with a Variable Step Size," 12th International Conference on Power Electronics and Motion Control, (EPE-PEMC 2006), pp.603-607, Aug. 30-Sept. 1, 2006.
99. Y. Lei, A. Mullane, G. Lightbody, and R. Yacamini, "Modeling of the Wind Turbine with Double Fed Induction Generator for Grid Integration Studies," IEEE Trans. Energy Convers., vol. 21, no. 1, pp. 257–264, Mar. 2006.
100. Quezada V, Abbad J, San Román T. "Assessment of Energy Distribution Losses for Increasing Penetration of Distributed Generation". IEEE Transactions on Power Systems, p.533–540, 21(May (2), 2006
101. Wai, R. Wang, W. & Jun-You, M. "Grid- Connected Photovoltaic Generation System with Adaptive Step-Perturbation Method and Active Sun Tracking Scheme", IEEE Transactions on Industrial Electronics, Page(s):224 – 228, Nov. 2006
102. F. Blaabjerg, R. Teodorescu, M. Liserre, and A. V. Timbus, "Overview of Control and Grid Synchronization for Distributed Power Generation Systems," IEEE Trans. Ind. Electron., vol. 53, no. 5, pp. 1398–1409, Oct. 2006.
103. G. de Cesare, D. Caputo, and A. Nascetti, "Maximum Power Point Tracker for Portable Photovoltaic Systems with Resistive-Like Load," Solar Energy, vol. 80, pp. 982–988, 2006.
104. N. Mutoh, M. Ohno, T. Inoue, "A Method for MPPT Control While Searching for Parameters Corresponding to Weather Conditions for PV Generation Systems," IEEE Transactions on Industrial Electronics, vol.53, no.4, pp.1055-1065, June 2006.
105. S . Cuk and R. D. Middlebrook, "A general unified approach to modeling switching dc-to-dc converters in discontinuous conduction mode," in IEEE Power Electronics Specialists Con5 Rec., pp.36-57 (IEEE Publication 77CH1213-8 AES, 1977.

106. Francisco M. González-Longatt, "Model of Photovoltaic Module in Matlab™", 2DO congreso iberoamericano de estudiantes de ingeniería eléctrica, electrónica y computación, 2005.
107. Gaboriault, M., and Notman, A., "A High Efficiency, Non-Inverting, Buck-Boost DC-DC Converter", Applied Power Electronics Conference and Exposition, APEC'04. Ninteenth Annual IEEE, vol.3, pp. 1411-1415, 2004.
108. Garimella N, Nair N-KC. Assessment of battery energy storage systems for small-scale renewable energy integration. In: IEEE TENCON; p. 1–6, 2009.
109. .J. Youngseok, S. Junghun, Y. Gwonjong and C. Jaeho, 'Improved Perturbation and Observation Method (IP&O) of MPPT Control for Photovoltaic Power Systems', The 31st Photovoltaic Specialists Conference, Lake Buena Vista, Florida, pp. 1788 – 1791, 3-7 January 2005.
110. N. Ina, S. Yanagawa, T. Kato, and Y. Suzuki, "Smoothing PV Systems Output by Tuning MPPT Control," *Elect. Eng. Jpn.*, vol. 152, no. 2, pp. 10–17, 2005.
111. Kusko A, DeDad J. Stored energy-short-term and long-term energy storage methods for standby electric power systems. *IEEE Trans Ind*;13(4):66–72. Appl 2007.
112. W. Xiao and W. Dunford, "A Modified Adaptive Hill Climbing MPPT Method for Photovoltaic Power Systems," *IEEE 35th Annual Power Electronics Specialists Conference, PESC 04.*, vol. 3. IEEE, pp. 1957–1963, Jun. 2004.
113. Y. Yusof, S. H. Sayuti, M. Abdul Latif, M. Z. C. Wanik, "Modeling and Simulation of Maximum Power Point Tracker for Photovoltaic System," *Proceedings of Power and Energy Conference, (PECon 2004)*, pp. 88- 93, 29-30 Nov. 2004.
114. Jain, S. and V. Agarwal, "A New Algorithm for Rapid Tracking of Approximate Maximum Power Point in Photovoltaic Systems". *Power Electronics Letters, IEEE*, 2(1): p. 16-19, 2004.
115. Chung, H.S.H., Ho. M.T., Hui, S.Y.R., Tse. K.K., "A Comparative Study of Maximum-Power-Point Trackers for Photovoltaic Panels Using Switching- Frequency Modulation Scheme," *IEEE Trans. Industrial Electronics*, 51(2):410- 418, April 2004.
116. W. Xiao, et al., "Topology Study of Photovoltaic Interface for Maximum Power Point Tracking," *Industrial Electronics, IEEE Transactions on*, vol. 54, pp. 1696-1704, 2007.
117. S. Premrudeepree Chachain and N. Patanapirom, 'Solar Array Modelling and Maximum Power Tracking Using Neural Networks', *IEEE Power Tech Conference, Bologna, Italy*, PP. 53 – 68, 23-26 June 2003.
118. Antunes. F.L.M., Santos. J.L., "Maximum Power Point Tracker for PV Systems," *World Climate & Energy Event*, December 2003.

119. O. Alonso, P. Sanchis, E. Gubia, L. Marroyo, "Cascaded H-bridge Multilevel Converter for Grid Connected Photovoltaic Generators with Independent Maximum Power Point Tracking of each Solar Array", IEEE Power Electronics Specialist Conference, 15-19, pp. 731-735, June 2003.
120. V.m. Pacheco, L.C. freitas, J.B. Vieira, V.J. farias, E.A.A. cahelo "A DC-DC Converter Adequate for Alternative Supply Systems," Applied Power Electronics Conference and Exposition, seventh annual IEEE, pp.1074-1080, 2002.
121. H. De Battista, R.J. Mantz; "Variable structure control of a photovoltaic energy converter" IEE Proc. Control Theor. Appl., 149, pp. 303-310, 2002.
122. V.m Pacheco, L.C freitas, J.B Vieira, V.J farias, E.A.A cahelo "Stand-Alone Energy Storage System with Maximum Power Point Tracking" Applied Power Electronics Conference and Exposition, seventh annual IEEE, pp.97-102, 2002.
123. M. A. S. Masoum, H. Dehbonei, and E. F. Fuchs, "Theoretical and Experimental Analyses of Photovoltaic Systems with Voltage and Current-based Maximum Power-Point Tracking," IEEE Trans. on Energy Converters., vol. 17, no. 4, pp. 514-522, Dec. 2002.
124. Yan Hong Lim, David C. Hamill "Synthesis, Simulation and Experimental Verification of Maximum Power Point Tracker from Nonlinear Dynamics," Power Electronics Specialists Conference, pp.199-204, 2001.
125. Chung, H.S.H., Ho, M.T., Hui, S.Y.R., Tse, K.K., "A Novel Maximum Power Point Tracking Technique for PV Panels," Power Electronics Specialist Conference, 4:1970-1975, June 2001.
126. Kuo, Y. Liang, T. & Chen, J. "Novel Maximum-Power-Point-Tracking Controller for Photovoltaic Energy Conversion System". IEEE Transactions on Industrial Electronics, Volume 48, Issue 3, Page(s):594 - 601, June 2001.
127. V. Quaschnig and R. Hanitsch, "Numerical Simulation of Current-Voltage Characteristics of Photovoltaic Systems with Shaded Solar Cells," Solar Energy, vol. 56, no. 6, pp. 513-520, 1996.
128. Chimento, G., et al., "Effects of Irradiance and Other Factors on PV Temperature Coefficients," IEEE Record of Photovoltaic Specialists Conference, 1:608-613, October 1991.
129. Jewell, W.T., Unruh, T.D., "Limits on Cloud-Induced Fluctuation in Photovoltaic Generation" IEEE Transactions on Energy Conversion, vol. 5, issue 1, 1990.
130. Agarwal, S.K. Muralidharan, R. Agarwal, A. Tewary, V.K. Jain, S.C., "A New Method for the Measurement of Series Resistance of Solar Cells", J. Phys. pp 1643-1646, 1989

131. Daniel,A., Pritchard,D. “Sun Tracking by Peak Power Positioning for Photovoltaic Concentrator Arrays”, IEEE Transactions on Control System, Volume 3, Issue3, Page(s):2-8, August 1983.
132. <http://www.eia.gov/countries/analysisbriefs/India/india.pdf>
133. Powering Ahead With Renewables Leaders & Laggards, greenpeace, infraline energy, <http://www.greenpeace.org/india/Global/india/report/2013/powering-ahead-with-renewables.pdf>
134. Dr. Tarlochan Kaur, “The Indian Power Sector – A Sustainable Way Forward,” IEEE, IPEC2010, pp. 666-669.
135. Load Generation Balance Report 2013-14, Government of India Central Electricity Authority, http://www.cea.nic.in/reports/yearly/lgbr_report.pdf
136. Mapping India’s Renewable Energy growth potential: Status and outlook 2013, [http://www.ey.com/Publication/vwLUAssets/Mapping_Indias_Renewable_Energy_growth_potential/\\$FILE/EY-Mapping-Indias-Renewable-Energy-growth-potential.pdf](http://www.ey.com/Publication/vwLUAssets/Mapping_Indias_Renewable_Energy_growth_potential/$FILE/EY-Mapping-Indias-Renewable-Energy-growth-potential.pdf)
137. http://www.cea.nic.in/reports/monthly/inst_capacity/dec13.pdf
138. Energy Statistics 2013, central statistics office national statistical organisation ministry of statistics and programme implementation government of India, www.mospi.gov.in
139. <http://www.mnre.gov.in/mission-and-vision-/achievements>
140. energy, <http://planningcommission.nic.in/hackathon/Energy.pdf>
141. Green Norms For Wind Power 2013, Centre For Science And Environment, www.cseindia.org
142. Green Norms For energy Small Hydro Power 2013, Centre For Science And Environment, www.cseindia.org
143. http://naturalscience.ku.edu.tr/wp-content/uploads/AKiraz_Scie111_Fall2013_12.pdf
144. World Energy Resources 2013 survey, world Energy council,http://www.worldenergy.org/wpcontent/uploads/2013/09/Complete_WER_2013_Survey.pdf
145. A. Kumar, A. Garg, S. Kriplani and P. Sehrawat, “Utilization of Geothermal Energy Resources for Power Generation in India: A Review,” 7th Internal conference & Exposition on Petroleum Geophysics, Hyderabad 2008,p-290
146. P. C. Roy, “Role Of Biomass Energy For Sustainable development Of Rural India: Case Studies,” International Journal of Emerging Technology and Advanced Engineering, Volume 3, Special Issue 3: ICERTSD 2013, Feb 2013, pages 577-582.
147. Renewable energy in India 2013,Indo-German energy forum, http://energyforum.in/newsletter.html?file=tl_files/downloads/PDF%20News/RENEW

148. Vaddi Ramesh, P Anjappa and P.Dhanamjaya,” Simulation and Implementation of Incremental Conductance MPPT with Direct Control Method Using Boost Converter,” International journal of engineering science and innovative technology (ijesit) volume 2, issue 6, November 2013.
149. Current Trends/Status in Solar Power Market, Workshop on “Challenges and Issues in Solar RPO Compliance/RECs” Hyderabad May 23, 2013.
150. India’s Energy Scenario in 2013 - Challenges & Prospects, <http://www.hcasia.safan.com/mag/hcajanmar13/r06.pdf>
151. Sunil M.Satao, Dr.Vivek, Dr.Chetan, Nileema B.Patil and V.R.Naphade, “Utilization of Solar Energy as an Constituent of Green Energy Anticipated for Green Environment in India,” IRACST- International Journal of Research in Management & Technology (IJRMTI), SSN: 2249-9563, Vol. 3, No.3, June 2013.
152. Maria Bechtel and Erik Netz, Ocean thermal energy conversion, <http://www.exergy.se/ftp/cng97ot.pdf>
153. Ocean thermal energy conversion, <http://www.mareasistemi.com/DIDATTICA%2014/Ocean%20thermal%20energy%20conversion.pdf>
154. Energy And Infrastructure, http://www.spc.tn.gov.in/12plan_english/9-Energy.pdf
155. Opportunities & Issues in the Indian Renewable Energy Sector may 2013, IEEE: RE3P3,<http://ieeebombay.org/wp-content/uploads/2013/05/PwC-RE3P3-03052013.pdf>
156. http://data.gov.in/sites/default/files/Estimated_Renewable_Energy_Potential_As_On_15th_April_2013.xls.