

LIST OF REFERENCES

- [1] B. Robinson, “Energy Resources Types”, GEOE432:Energy Policy, John A. Dutton e-education Institute, college of Earth and Mineral Sciences, Univ. Pennsylvania State [online], <http://www.e-education.psu.edu/geog432/>.
- [2] P. Komor and T. Molnar, “Background Paper on Distributed Renewable Energy Generation and Integration” University of Colorado, Boulder, Colorado, USA, 20 February 2015.
- [3] The Gazette of the Democratic Socialist Republic of Sri Lanka-extraordinary, Part I: Section (I)-General, No. 1553/10 – Tuesday, June 10, 2008.
- [4] Sri Lanka Energy Sector Development Plan For A Knowledge- Based Economy 2015 – 2025, Ministry of Power and Energy
- [5] Sri Lanka Energy Balance [online], available at: <http://www.energy.gov.lk>
- [6] D.G. Infield et al, “Power quality from multiple grid-connected single phase inverters,” IEEE Trans. On Power delivery, Vol.19 (4), pp.1983-1989, Oct 2004.
- [7] D. Perera, “Contributions to the understanding of harmonics, flicker and voltage unbalance managements in future electricity distribution network,” Ph.D dissertation, School of Electrical, Computer and Telecommunications Eng., Univ. Wollongong, New South Wales, Australia, 2014.
- [8] A. Chidurala et al, “Harmonic Characterization of Grid Connected PV Systems & Validation with Field Measurements”, ©2015 IEEE.
- [9] Grid Connection Requirement for Solar Power Plants – Addendum to the CEB Guide for Grid Interconnection of Embedded Generators, December 2000.
- [10] N. Mohan, “ Review of Basic Electrical and Magnetic Circuit Concepts,” in Power Electronics Converters, Applications and Design, 2nd ed., New York, John Willey and Sons, Inc., 1995, ch.3, pp. 33 - 60.
- [11] J. R. Lucas, “Theory of Electricity – Analysis of Non-sinusoidal Waveforms - Part 1,” Dept. Elec. Eng., Univ. Moratuwa, Oct 2001.
- [12] IEEE Interharmonic Task Force, Cigré 36.05/CIRED 2 CC02 Voltage Quality Working Group, “Interharmonics in Power Systems,”

- [13] R. C. Dugan *et al*, “fundamentals of Harmonics”, in Electrical Power system quality, 2nd ed., New York McGraw-Hill, ch.5, pp. 167 – 224, www.digitalengineering library.com.
- [14] J. Smith *et al*, “Power Quality Aspects for Solar Power,” working Group JWG C4/C6.29, Dec 2016.
- [15] N. Mohan, “Switch-mode dc-ac Inverters: dc Sinusoidal ac,” in Power Electronics Converters, Applications and Design, 2nd ed., New York, John Willey and Sons, Inc., 1995, ch. 8, pp. 200 – 215.
- [16] A. Y. Kalbat, “PSCAD simulation of grid-tied photovoltaic systems and total harmonic distortion analysis, IEEE Conference Publication, pp. 1-6, 2013.
- [17] D.G. Infield *et al*, “Power quality from multiple grid-connected single phase inverters,” *IEEE Trans. On Power delivery*, Vol.19 (4), pp.1983-1989, Oct 2004.
- [18] J.H.R. Enslin *et al*, “Harmonic interaction between a large number of distributed power inverters and the distribution network,” *IEEE Trans. On Power electronics*, Vol. 19(6), pp.1586-1593, Nov 2004.
- [19] A. Chidurala *et al*, “Harmonic impact of high penetration photovoltaic system on unbalanced distribution networks – learning from an urban photovoltaic network,” *IET Renewble Power Generation*, Vol. 6 (4), pp 485-494, 2016.
- [20] A. Celebi and M. Cloak, “The effects of harmonic produced by grid connected photovoltaic systems on electrical networks,” Dept. Elec. & Electronic Eng., Fac. Eng., Ege Univ., Bornova.
- [21] E.C. Aprilia, “Modelling of Photovoltaic (PV) Inverter for Power Quality Studies,” MSc. Dissertation, Dept. Electrical Eng., Univ. Eindhoven, North Brabant, Netherlands, 2012.
- [22] H. Hu *et al*., “Potential Harmonic Resonance Impacts of PV Inverter Filters on Distribution Systems,” *IEEE Trans. On Sustainable Energy*, vol. 6(1), Jan 2015.
- [23] M.S. de Cardona and J. Carretero, “Analysis of the current total harmonic distortion for different single-phase inverters for grid-connected pv-systems,” Applied Physics Dept. II, Univ. Malaga, Malaga, Spain, 2004.
- [24] M. Patsalides *et al*, “The effect of solar irradiance on the power quality behaviour of grid connected photovoltaic systems,” Dept. Elec. And Comp. Eng., Univ. Cyprus.

- [25] G. K. Venayagamurthy, “Comparison of Power System Simulations Studies on Different Platforms – RSCAD, PSCAD/EMTDC and SIMULINK SimPowerSystems,” Real-time Power and Intelligent Systems Laboratory, Univ. Missouri-Rolla, USA.
- [26] A. D. Rajapakse and D. Muthumuni, “simulation Tools for Photovoltaic System Grid Integration Studies,” IEEE Conf. Electrical Power and Energy, 2009.
- [27] A. Kalbat, “PSCAD Simulation of Grid-Tied Photovoltaic Systems and Total Harmonic Distortion Analysis,” 3rd Int. Conf. on Electric Power and Energy Conversion Systems, Turkey, ©2013IEEE.
- [28] M. H. Tushar, “Comparative Study on DC-DC Converters,” Dept. Elec & Elect. Eng, Univ. BRAC, Dhaka, Bangladesh, 2012.
- [29] MICROCHIP Webseminar, “Buck Converter Design Example,” Microchip Technology Inc, 2006.
- [30] N. Mohan, “Overview of Power Electronic Semiconductor Switches,” in Power Electronics Converters, Applications and Design, 2nd ed., New York, John Willey and Sons, Inc., 1995, ch.2, pp. 16 - 32.
- [31] J. Lettl et al., “Comparison of Different Filter Types for Grid Connected Inverter,” Progress in Electromagnetics Research Symposium Proc., pp.1426 -1429, March 2011.
- [32] T. C.Y. Wang et al., “Output Filter Design for a Grid-interconnected Three-phase Inverter,” GE Global Research Center, New York, pp.779 –784, ©2003 IEEE.
- [33] A. Reznik et al., “LCL Filter Design and Performance Analysis for Grid Interconnected Systems,” IEEE Trans. on Industry Applications, Vol. 50 (2), March/April 2014.
- [34] Public Utilities Commission of Sri Lanka, “Generation and Reservoirs Statistics- March 20, 2018,” [online], available at: http://www.pucsl.gov.lk/english/wp-content/uploads/2018/03/Generation-Report_20-03-2018.pdf
- [35] Ceylon Electricity Board, “Historical Data Book 1969-2015” [online], available at: http://www.ceb.lk/index.php?aam_media=38068
- [36] L. N. W. Arachchige *et al.*, “Generation cost Optimization through a Network Stability study,” Dept. Elec. Eng., Univ. Moratuwa, July 2016.

- [37] Lanka Electricity Company (Private) Limited, “Load Flow Analysis – Year 2015 to 2025,” Dept. System Development, April 2015.
- [38] D.H.O. McQueen *et al.*, “Monte Carlo Simulation of Residential Electricity Demand for Forecasting Maximum Demand on Distribution Networks,” IEEE Trans. On Power Systems, Vol.19 (3), pp.1685-1689, Aug 2004.
- [39] M. Sun *et al.*, “Analysis of Diversified Residential Demand in London Using Smart Meter and Demographic Data,” Power and Energy Society General Meeting (PESGM), July 2016©IEEE.
- [40] P. Kundur, “Power System Loads,” in Power System Stability and Control, NewYork, McGraw-Hill, Inc., ch. 7, pp. 271 – 313.
- [41] E. Muljadi *et al.*, “ User Guide for PV Dynamic Model Simulation Written on PSCAD Platform,” Technical Report, National Renewable Energy Laboratory, U.S. Dept. of Energy, Nov 2014 – www.nrel.gov/publications