

REFERENCES

- [1] Srinivasulu Avireni, Chandra Shaker Pittala, "Grounded resistance/capacitance - Controlled sinusoidal oscillators using operational Transresistance amplifier", *wseas Transaction on circuit and system*, volume 13, 2014.
- [2] K.N Salama, A.M. Soliman, "Novel oscillator using the operational amplifier", *Microelectronics journal* 31 (2000) 39 – 47, accepted 12 April 1999.
- [3] Hung – Chun Chien, "New realization of single OTRA – based sinusoidal Oscillators", *Hindawi Publishing Corporation, Active and Passive Electronic Components*, Volume 2014, Article ID 938987, 12 Pages, 10 March 2014.
- [4] Rajeshwari Pandey, Neeta Pandey, Sajal K. Paul, "Electronically Tunable Transimpedance Instrumentation Amplifier based on OTRA," *Journal of Engineering*, Volume 2013, Article ID 648540, 5 pages, doi.org/10.1155/2013/648540.
- [5] Rajeshwari Pandey, Saurabh Chitransi, Neeta Pandey, Chander Shekhar, "Single OTRA based PD Controllers," *International Journal of Engineering Science and Technology*, vol. 4 no. 4, pp.1426 – 1437, 2012.
- [6] Mayank Bothra, Rajeshwari Pandey, Neeta Pandey, Sajal K. Paul, "Operational Trans – resistance Amplifier Based Tunable Wave active Filter," *Radioengineering*, vol. 22, No. 1, April 2013.
- [7] V. Zeman, K. Vrba, "Filters with Transimpedance Operational Amplifiers," *Electronic, Measuring and Communication Engg.*, Workshop 96, supported by TU grant No. 1 – 991/05.
- [8] Ashish Ranjan, Vivek Bhatt and Manoj Joshi, "Realization of Third Order Low Pass Filters and its Nature like Butterworth, Bessel and Chebyshev using OTRA," *First International Conference on Advances in Computing and Communication Engineering (ICACCE) – 2014*.

- [9] Khaled N. Salama, Ahmed M. Soliman, "CMOS Operational Transresistance Amplifier for Analog Signal Processing," *Microelectronic Journal* 30 (1999) 235 – 245, October 1998.
- [10] Rajeshwari Pandey, Neeta Pandey, Mayank Bhotra, Sajal K. Paul, "Operational Transresistance Amplifier – Based Multiphase Sinusoidal Oscillators," *Journal of Electrical and computer Engineering* Volume 2011, Article ID 586853, 8 pages, doi:10.1155/2011/586853.
- [11] Cevat Erdel, "A New Current Feedback – Amplifier (CFAs) based Proportional - integral – Derivative (PID) Controller Realization and calculating optimum parameter tolerances," *Pakistan Journal of Applied Sciences* 2(1), 56 – 59, 2002.
- [12] Vijaylaxmi Kalyani, Aayushi Arya, "Design and Simulation of VFA and CFA based Integrator, Differentiator using NI Multisim and Their Comparison," *International Journal of Advanced research in Electronics and Communication Engineering (IJARECE)*, Vol. 3, August 2014.
- [13] A Budak, "Passive and Active Network Analysis and Synthesis," Houghton Mifflin, Boston, 1974.
- [14] A.M. Soliman, M.H. Al-Shamaa, M. Dakalbab, "Active Compensation of RC Oscillator Frequency, Vol. 42, No. 11-12, pp.325-332, 1988.
- [15] A.M. Soliman, "Simple Sinusoidal Active RC Oscillator," *International Journal Electron*, Vol. 39, No. 4, pp.455-458,1975.
- [16] C.M. Chang, "Novel Current Conveyor Based Single Resistance Controlled Voltage Controlled Oscillator Employing Ground Resistor and Capacitor," *Electron Lett*, Vol. 30, No. 3, pp.181-183, 1994.
- [17] A Srinivasulu, "A Novel Current Conveyor Based Schmitt trigger and its Application as a Relaxation Oscillator," *International Journal Circuit Theory Applica*, Vol. 39, No. 6, pp.679-686, 2010.

- [18] A.M. Soliman, "Current Mode CCII Oscillators using Ground Resistor and Capacitor," *International Journal Circuit Theory*, Vol. 26, No. 5, pp.431-438, 1998.
- [19] D R Bhaskar, "New CFOA-based Sinusoidal Oscillators Retaining Independent Control of Oscillation Frequency Even Under the Influence of Parasitic Impedance," *Analog Integrated Circuits and Signal Processing*," Vol. 73, No. 1, pp.427-437, 2012
- [20] M.T. Abuelma Atti and M. A. Al-Qahtani, " A new current controlled multiphase sinusoidal oscillator using translinear current conveyors," *IEEE Transaction on circuits and systems – II*, vol. 45,no. 7, pp.831-835,1998.
- [21] C. Llocharataramdee, W. Kiranon, W. Sangpisit, and W. Yadum, " Multiphase sinusoidal oscillators using translinear current conveyors and only grounded passive components," in proceeding of the 33rd south-eastern symposium on system Theory, pp. 81-93,2001.
- [22] W. Tangsrirat and W. Tanjaroen," Current-mode Multiphase Sinusoidal oscillator using current differencing Transconductance amplifiers," *Circuits, Systems, and Signal Processing*, vol. 27, no. 1,81-93,2008.
- [23] W. Tangsrirat and W. Tanjaroen, and T. Pukkalanun," Current-mode Multiphase Sinusoidal oscillator using CDTA-based all pass section," *AEU-International journal of Electronic and Communications*, vol. 63, no. 7, pp. 616-622,2009.
- [24] D. S. Wa, S. I. Liu, Y. S. Hwang, and Y. P. Wu," Multiphase Sinusoidal Oscillator using CFOA Pole," *Proceeding Institution of Electronic Engineering Circuit, Devices, and system*, vol. 142, no. 1, pp. 37-40,1995.
- [25] A. S. Sedra and K. C. Smith, *Microelectronic Circuits*, Oxford University, New York, NY,USA,2004.
- [26] C. Toumazon, F. J. Lidgley and D. J. Haigh, *Analogue IC design, the current mode approach*, Chapter 1, Peregrinus, London, UK, 1990.

- [27] J. Chen, H. Tsao and C. Chen, "Operational Transresistance Amplifier using CMOS Technology," *Electronics Letters*, vol. 28, no. 22, pp. 2087-2088, 1992.
- [28] Y. K. Lo, H.C. Chein, and H. G. Chiu, "Switch Controllable OTRA based bistable multivibrator," *IET Circuits, Devices and Systems*, vol. 2, no. 4, pp. 373-382, 2008.
- [29] Rajeshwari Pandey, Neeta Pandey, Rajendra Kumar and Garima Solanki, "A Novel OTRA Based Oscillator with Non Interactive Control," *International Conference on Communication and Computer Technology (ICCCT 10)*, pp.658-660, Sept 2010.
- [30] Rajeshwari Pandey, Neeta Pandey, Sajal K. Paul, "MOS – C Third order Quadrature Oscillator using OTRA," *Third International Conference on Communication and Computer Technology (ICCCT 12)*, pp.77 – 80, Nov. 2012.
- [31] AD844 Datasheet, Analog Devices Inc.