

- implemented by advanced CMOS active elements”, in *Proc. of 2018 15th International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD)*, Prague, Czech Republic, 2018, pp. 257–260. DOI: 10.1109/SMACD.2018.8434560.
- [17] L. Langhammer, R. Sotner, J. Dvorak, J. Jerabek, and P. A. Ushakov, “Novel reconnection-less reconfigurable filter design based on unknown Nodal voltages method and its fractional-order counterpart”, *Elektronika ir Elektrotechnika*, vol. 25, no. 3, pp. 34–38, 2019. DOI: 10.5755/j01.eie.25.3.23673.
- [18] V. Chamnanphrai and W. Sa-ngiamvibool, “Electronically tunable SIMO mixed-mode universal filter using VDTAs”, *Przegląd Elektrotechniczny*, vol. 2017, no. 3, pp. 207–211, 2017. DOI: 10.15199/48.2017.03.48.
- [19] J. Koton, N. Herencsar, K. Vrba, and J. Jerabek, “Digitally adjustable current amplifier and its application in fully differential current-mode band-pass filter design”, *Elektrorevue*, vol. 2010, no. 90, pp. 47–52, 2010.
- [20] D. Biolek, R. Senani, V. Biolkova, and Z. Kolka, “Active elements for analog signal processing: Classification, review, and new proposals”, *Radioengineering*, vol. 17, no. 4, pp. 15–32, 2008.
- [21] J. Jerabek, J. Koton, R. Sotner, and K. Vrba, “Adjustable band-pass filter with current active elements: Two fully-differential and single-ended solutions”, *Analog integrated circuits and signal processing*, vol. 74, pp. 129–139, 2013. DOI: 10.1007/s10470-012-9942-4.
- [22] R. Sponar and K. Vrba, “Measurements and behavioral modelling of modern conveyors”, *International Journal of Computer Science and Network Security*, vol. 3A, no. 6, pp. 57–63, 2006.
- [23] Texas Instruments, VCA822 Wideband variable gain amplifier amplifier (datasheet), 2015. [Online]. Available: <http://www.ti.com/lit/ds/symlink/vca822.pdf>
- [24] Intersil (Elantec), EL2082 CN Current-mode multiplier (datasheet), 1996. [Online]. Available: <http://pdf.datasheetcatalog.com/datasheet/elantec/EL2082CN.pdf>
- [25] W. K. Chen, *The Circuits and Filters Handbook*, 3rd ed. USA, CRC Press, 2009.