

ON THE REALIZATION OF FLOATING INDUCTORS

AHMED M SOLIMAN

Electronics and Communications Engineering Department, Cairo University, Egypt E-mail: asoliman@ieee.org

Abstarc :

ABSTRACT: Floating inductor circuits using minimum number of passive elements namely two resistors and one capacitor is reviewed in this paper. All the circuits considered in this paper are floating. Previously reported non-floating circuits are modified to be floating and new floating circuits are introduced as well. The active elements used in this paper are floating conveyor building blocks as well as pairs of non-floating conveyor blocks acting as a floating pair. Simulation results of second order lowpass filters realized using different types of floating inductors are included. [Nature and Science 2010;8(5):167-180]. (ISSN: 1545- 0740).

Key Word :

Floating inductors, current conveyors, gyrator, DVCC, FDVCC.

Volume 8, Number 5, May 2010 , ISSN 1545-0740