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عنوان مقاله:

On the Transformation of a Floating Resistor Oscillator to Grounded Passive Element Oscillators

محل انتشار:

مجله مهندسی برق مجلسی, دوره 4, شماره 3 (سال: 1389)

تعداد صفحات اصل مقاله: 6

نویسنده:

Ahmed Soliman - *Professor Cairo University*

خلاصه مقاله:

A generalization method is used to transform a floating resistor oscillator circuit to a family of sixteen grounded capacitor oscillators using the current conveyor (CCII) or the inverting current conveyor (ICCII) or combination of both. Two of the oscillator circuits have a floating property. A new family of sixteen oscillator circuits is generated from the known circuit using the adjoint circuit theorem. It is also shown that the oscillator under consideration leads to the generation of other known and new grounded passive element oscillators employing the differential voltage current conveyor (DVCC) and the balanced output current conveyor (BOCCII).

کلمات کلیدی:

Nodal Admittance Matrix Synthesis, None, en, Nullator, norator, Pathological Current and Voltage Mirrors, Grounded R, C Oscillators, DVCC, BOCCII

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