

Corrections to  
 "A Minimal Capacitor Cascade Synthesis  
 for Integrated Circuits"

There are two more or less numerical corrections of concern.

1. Page 117, 11 lines up and Fig. 9:

$$m = g_2/g_1$$

is the correct expression (in place of  $m = g_1/g_2$ ).

This entails the following modifications.

1a) page 119, line 1:  $a_+/a_- = g_2/g_1$

1b) Fig. 8:  $g_2 = g_1 [\text{Im } k y(k)] / [\text{Im } k y^*(k)]$

1c) Fig. 10:  $g_2 = g_1 a_+/a_-$

1d) Eq. (21c):  $\frac{g_{l_2}}{g_{l_1}} = \frac{a_{l_+}}{a_{l_-}} = \frac{a_-}{a_+} = \frac{g_1}{g_2}$

1e) Fig. 13:  $g_{l_2} = g_{l_1} a_-/a_+$

1f) Fig. 15: 0.5363U becomes 0.2990U

1g) Fig. 16:  $9.869\sqrt{kU}$  becomes  $0.0573\sqrt{kU}$

1h) Fig. 17:  $g_2 = 0.0761g_1$  becomes  $g_2 = 13.1406g_1$

2. Fig. 16:  $V_2$  needs to be taken across a one ohm resistor in order for the example  $y(p)$  of Eq. (25a) to be valid. Thus  $y_{22} = 0.0058U$  needs to be realized by a gyrator of gyration conductance  $0.241U$  terminated in a  $1\Omega$  resistor.

This entails replacing  $G_2$  in Fig. 17 by a gyrator of gyration conductance  $41.56g_n/g$  loaded in a  $1\Omega$  resistor across which  $V_2$  is measured.