Some Interesting MOS Filter References
EEC 212

1. *Integrated Continuous-Time Filters,* IEEE Press, ed. Y. Tsividis and J. Voorman, 1992. (A collection of papers on continuous-time filters.)

2. Y. Tsividis, "Integrated Continuous-Time Filters - An Overview", *Journal of Solid-State Circuits*, March 1994, pp 166-172.

3. J. Brown, et. al, "An 80Mb/s Adaptive DFE Detector in 1μm CMOS", *Int'l Solid-State Circuits Conf.*, pp. 324-325, 1997. (Shows a CMOS Gm-C ladder filter that uses positive feedback to boost the output resistance of the Gm cell.)

4. *MOS Switched-Capacitor Filters: Analysis and Design,* IEEE Press, ed. G. Moschytz, 1984. (A collection of papers on SCFs.)

5. *Modern Active Filter Design,* IEEE Press, ed. R. Schaumann, M. Soderstrand, and K. Laker, 1981. (An older collection of papers on filters.)

6. A. Baschirotto, et. al, "A 15MHz 20 mW BiCMOS SC Biquad Operating with 150MHz Sampling Rate", *Journal of Solid-State Circuits*, Dec. 1995, pp 1357-1366. (Differential BiCMOS SCF.)

7. G. Nicollini, et. al, "A 5V CMOS Programmable Acoustic Front-End for ISDN Terminals and Digital Telephone Sets", *Journal of Solid-State Circuits*, Sept. 1994, pp 1035-1045. (Differential SCF.)

8. N. Stessman, et. al, "System-Level Design for Test of Fully Differential Circuits," *Journal of Solid-State Circuits*, Oct. 1996, pp. 1683-1687. (Shows schematic of a differential SCF.)

9. D.S. Langford, et. al, "A BiCMOS Analog Front End Circuit for an FDM-Based ADSL System," *Journal of Solid-State Circuits*, Sept. 1998, pp. 1383-1393. (Shows a Rauch Biquad, which is a one-opamp biquad that has avoids CM signal swing at the opamp inputs.)

10. A. Budak, "Passive and Active Network Analysis and Synthesis," *Waveland Press*, 1991. (Biquad equations including finite gain and bandwidth effects.)

11. R. Schreier, et. al, "Design-Oriented Estimation of Thermal Noise in Switched-Capacitor Circuits," *IEEE Tran. on Circuits and Systems - I*, Nov. 2005, pp. 2358-2367. (Noise analysis of a switched-capacitor circuit, including op-amp noise in a specific feedback application.)

See also:

Circuits and references in Chapter 12 of the 212 (C,J and M) text (or Chapter 15 of the old Johns and Martin text book).

References listed on the course outline.