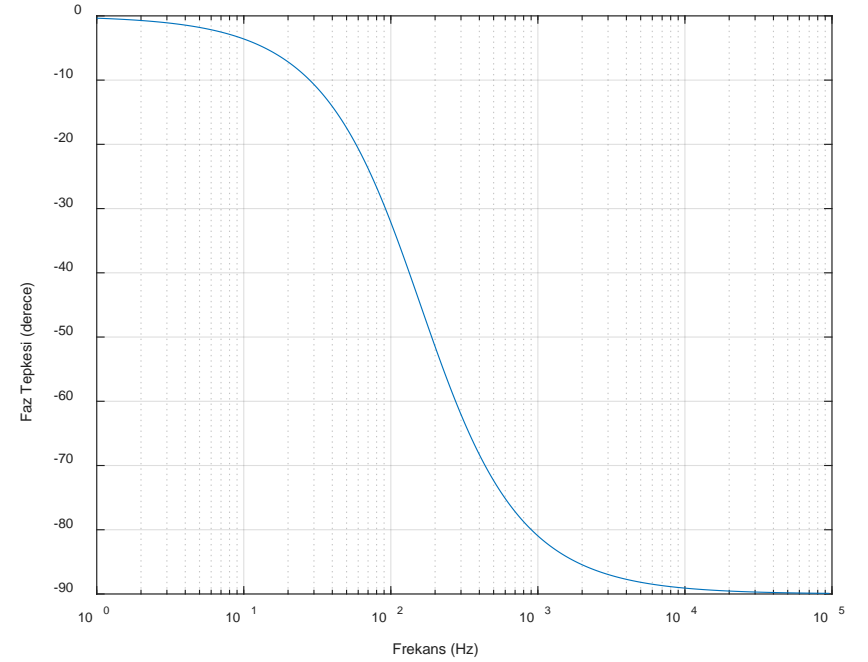
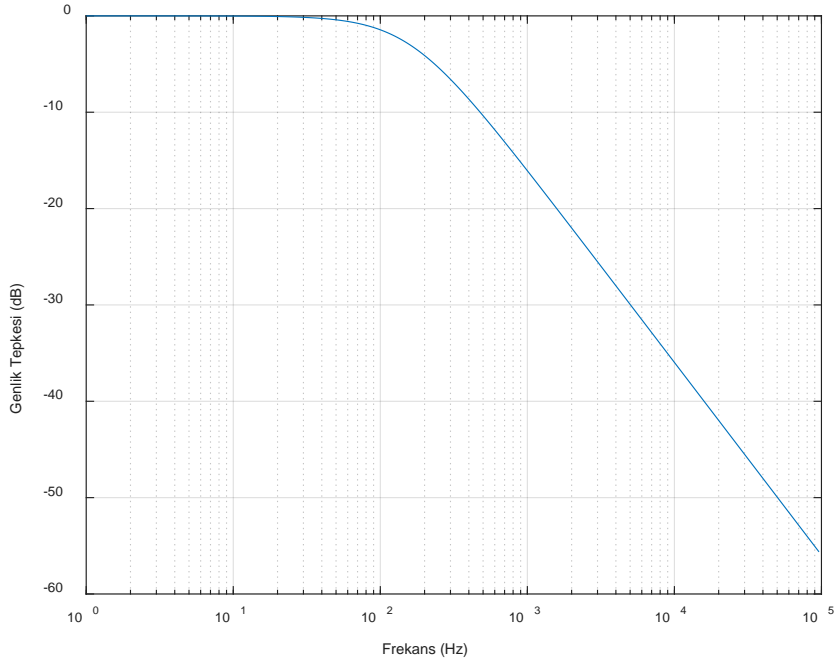
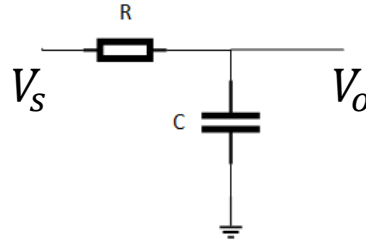


ELM320 ANALOG ELEKTRONİK

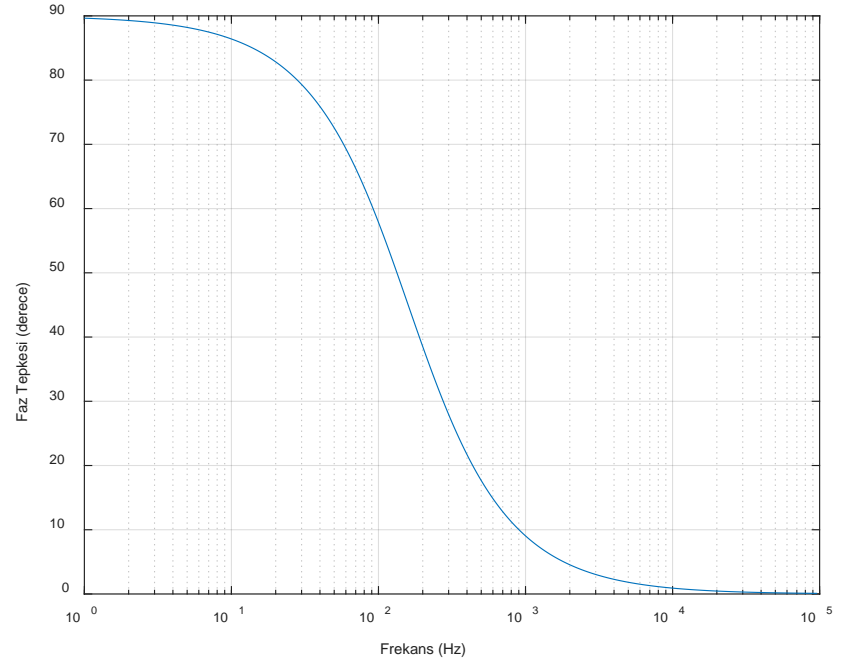
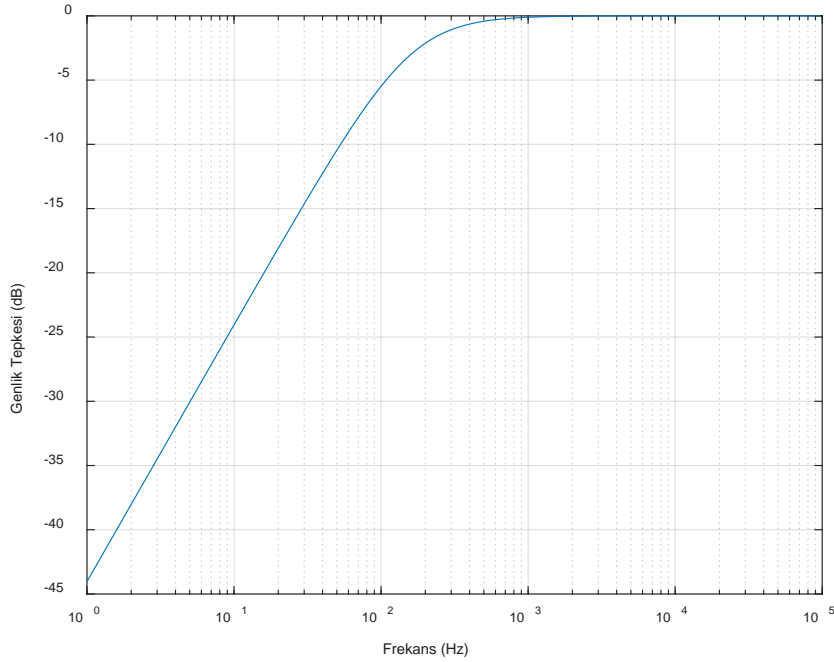
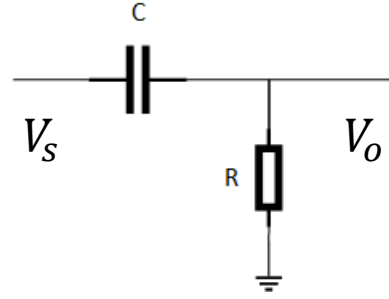
Ders Materyali

İŞLEMSEL YÜKSELTEÇ
UYGULAMALARI - SÜZGEÇLER

İŞLEMSEL YÜKSELTEÇ UYGULAMALARI - SÜZGEÇLER

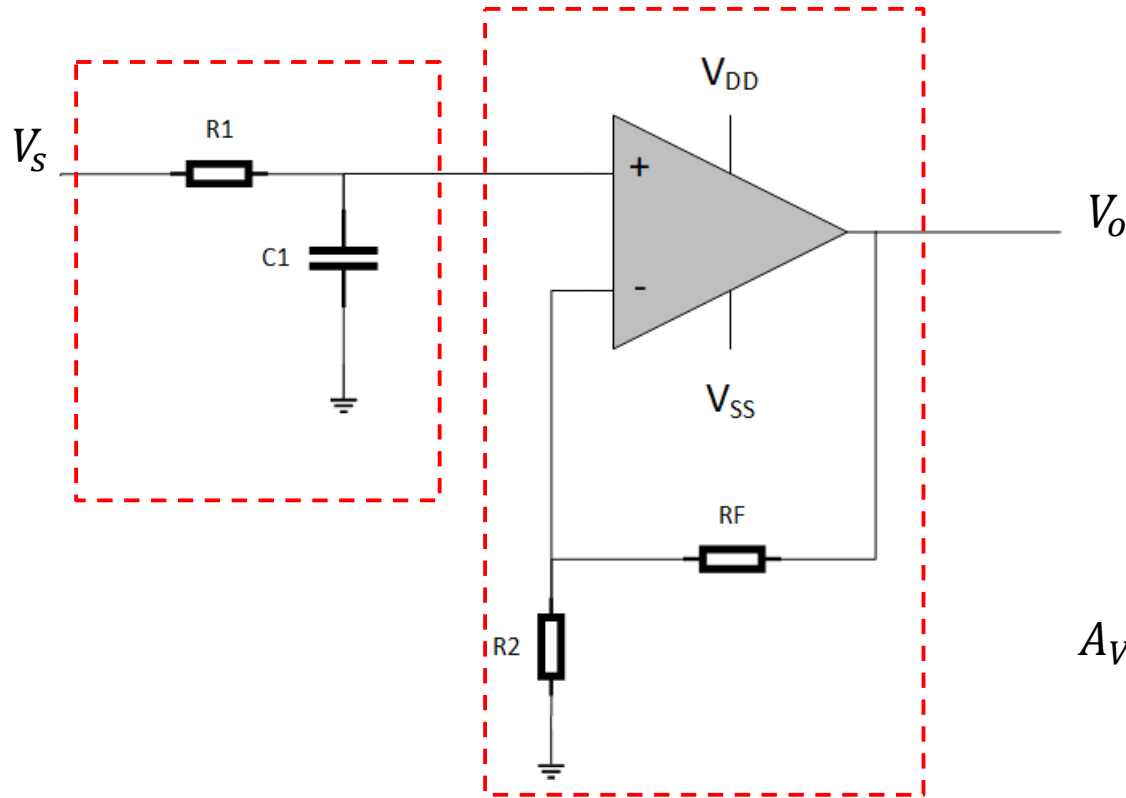


İŞLEMSEL YÜKSELTEÇ UYGULAMALARI - SÜZGEÇLER



İŞLEMSEL YÜKSELTEÇ UYGULAMALARI - SÜZGEÇLER

1. derece alçak geçiren aktif süzgeç:

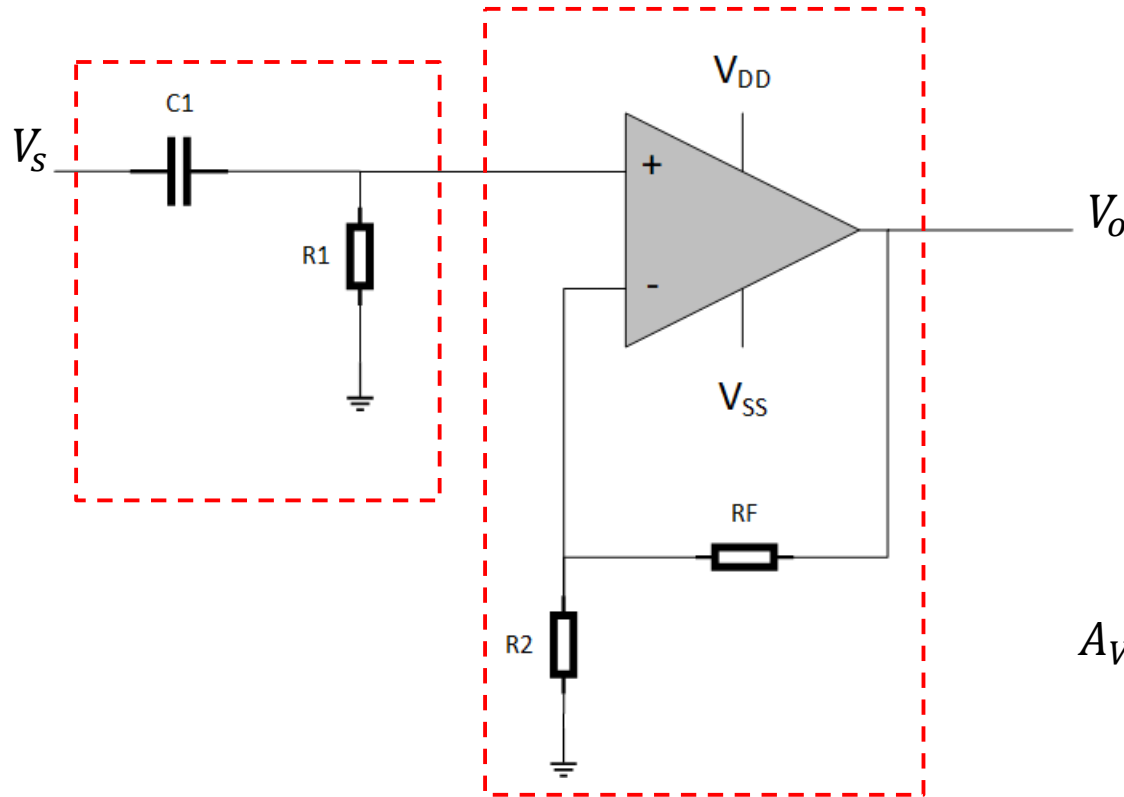


$$f_c = \frac{1}{2\pi R1 C1}$$

$$A_{Vmid} = \left(1 + \frac{R_F}{R2}\right)$$

İŞLEMSEL YÜKSELTEÇ UYGULAMALARI - SÜZGEÇLER

1. derece yüksek geçirgen aktif süzgeç:

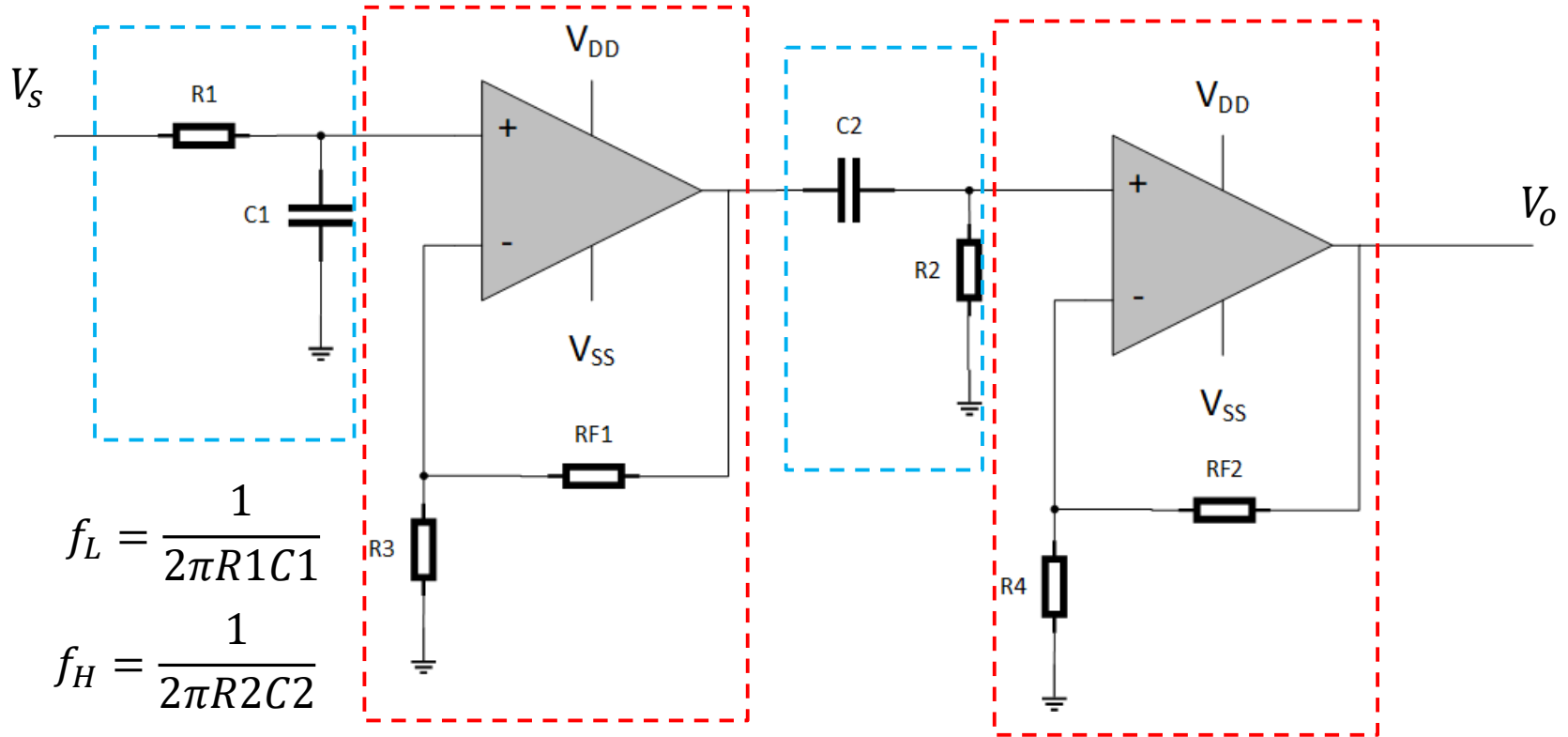


$$f_c = \frac{1}{2\pi R_1 C_1}$$

$$A_{Vmid} = \left(1 + \frac{R_F}{R_2}\right)$$

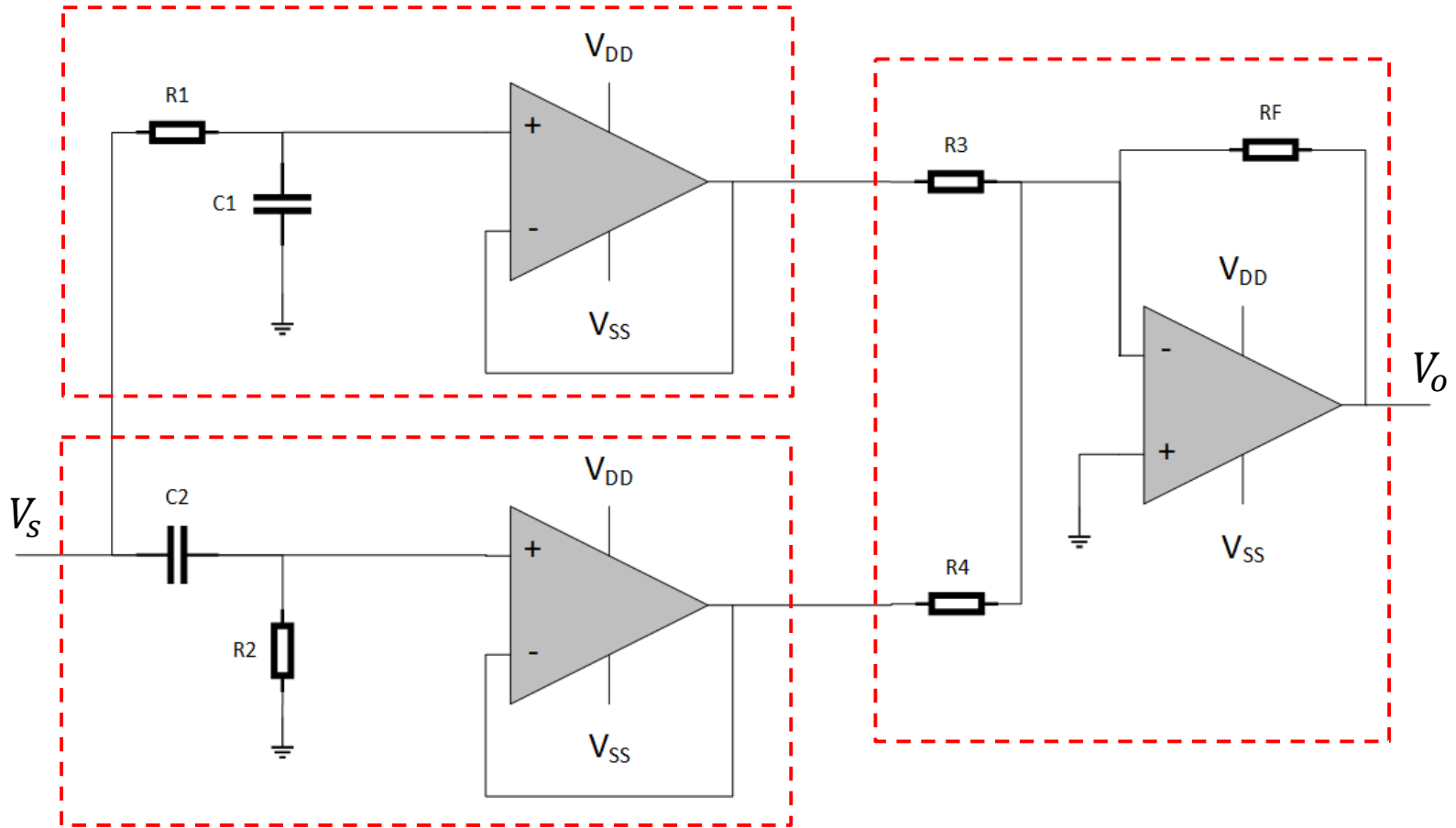
İŞLEMSEL YÜKSELTEÇ UYGULAMALARI - SÜZGEÇLER

Band geçirgen aktif süzgeç:



İŞLEMSEL YÜKSELTEÇ UYGULAMALARI - SÜZGEÇLER

Band durduran aktif süzgeç:



KAYNAKLAR

- Robert Boylestad, Louis Nashelsky, Electronic Devices and Circuit Theory, Prentice Hall, 1998.
- Art Kay, Timothy Claycomb, TI Designs –Precision: VerifiedDesignComparator with HysteresisReference Design, Texas Instruments Application Note, TIDU020A, 2013.
- Electronics tutorials website: <https://www.electronics-tutorials.ws>
- Tim Regan, Jon MunsonGreg Zimmer, Michael Stokowski, Current Sense Circuit Collection, Linear Technology Application Note 105 (an105fa), 2005.
- Neil Zhao, Wenshuai Liao, and Henri Sino, High-Side Current Sensing with Wide Dynamic Range: Three Solutions, Analog Dialogue 44-12, December 2010.
- CircuitsToday website: <http://www.circuitstoday.com/log-amplifier>
- Learning about Electronics website: <http://www.learningaboutelectronics.com/Articles/Difference-between-a-single-and-dual-supply-op-amp.php>
- OKAWA Electric Design website: <http://sim.okawa-denshi.jp/en/>
- Analog Devices website: <https://www.analog.com/designtools/en/filterwizard/>
- Hank Zumbahlen, Multiple Feedback Filters, Analog Devices Mini Tutorial (MT-220), 2012.
- Website: <http://www.righto.com/2015/10/inside-ubiquitous-741-op-amp-circuits.html>
- Ron Mancini and Richard Palmer, Sine-Wave Oscillator, Texas Instruments Application Report, SLOA060, 2001.