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Introduction To Analog Electronics – Lesson 2: AC vs DC Electricity

FORMULAS

The following formulas and information are meant to go with the online lesson found here:

http://www.pyroelectro.com/edu/analog/ac_vs_dc/

SINE WAVE OSCILLATORS

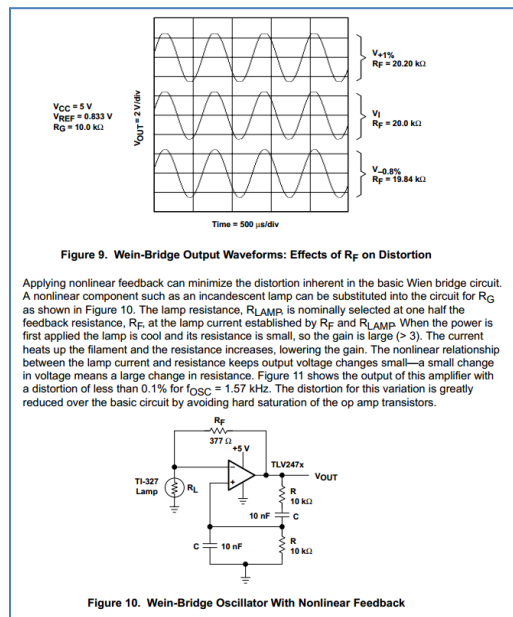
If you are curious to learn more about the details of the wien-bridge oscillator that we used in this lesson, there is a resource that goes into extreme detail about different sine-wave oscillators and how to build them.

Texas Instruments has a document titled: Sine Wave Oscillators

Link: <http://www.ti.com/lit/an/sloa060/sloa060.pdf>

Description:

This document describes many different ways to build sine wave oscillators from the most simple (like the circuit we used) to far more complex. In addition, it also explains many of the finer details of what is required to make a good sine wave oscillator, including the math to describe how it works. Skim through it or read it all the way through depending on how much information you are hungry for. An example of what is inside can be seen in the photo to the right.



ADDITIONAL INFORMATION

If you have any questions about the formulas or information found in this document, please feel free to head on over to the forums and ask us some questions!

<http://www.pyroelectro.com/forums/>