

Mini-Project #1: FM Synthesis for Musical Instruments

Assigned on Saturday, September 15, 2018
 Due on Friday, September 21, 2018, by 5:00pm

Late homework is subject to a penalty of two points per minute late.

Reading: McClellan, Schafer and Yoder, *Signal Processing First*, 2003, Chapter 3.
 Companion Web site with demos and other supplemental information: <http://dspfirst.gatech.edu/>
 Web site contains solutions to selected homework problems from *DSP First*.

The e-mail address for Mr. Houshang Salimian (TA) is salimian.houshang@gmail.com.
 Office hours for Mr. Salimian and Prof. Evans during the week of Sept. 3rd follow:

Time Slot	Monday	Tuesday	Wednesday	Thursday	Friday
11:00 am		Salimian (EER 0.814 Table #4)		Salimian (EER 0.814A)	
11:30 am		Salimian (EER 0.814 Table #4)		Salimian (EER 0.814A)	
12:00 pm		Salimian (EER 0.814 Table #4)		Salimian (EER 0.814A)	Salimian (EER 0.814D)
12:30 pm		Evans (EER 1.516)		Evans (EER 1.516)	Salimian (EER 0.814D)
1:00 pm		Evans (EER 1.516)		Evans (EER 1.516)	Salimian (EER 0.814D)
1:30 pm		Evans (EER 1.516)		Evans (EER 1.516)	Salimian (EER 0.814D)
2:00 pm		Evans (EER 6.882)		Evans (EER 6.882)	
2:30 pm		Evans (EER 6.882)		Evans (EER 6.882)	
3:00 pm		Evans (EER 6.882)	Salimian (EER 1.810)	Evans (EER 6.882)	
3:30 pm			Salimian (EER 1.810)		
4:00 pm			Salimian (EER 1.810)		

Assignment is to write a narrative report for Sections 1-4 of “Lab P-7: FM Synthesis for Musical Instruments - Bells and Clarinets” from the Web site for the *Signal Processing First* book:

<http://dspfirst.gatech.edu/chapters/DSP1st2eLabs/FMsynthLab.pdf>

You may work individually or with one partner. If you work with a partner, then submit one mini-project report per team of two people. Be sure that the mini-project report represents the independent work of the author(s) on the report.