

Accelerator Power Engineering USPAS 2019

The contents of this webpage are as follows:

1. This file, *ReadMeFirst.pdf*.
2. A deck of lecture slides for the course, *2019USPASAcceleratorPowerSystems.pdf*.
3. A *computer laboratory* directory that contains information and technical resources for our computer laboratory. This laboratory is based on the Analog Devices copyrighted and freely distributed software, LTspiceXVII. (Our use of this software does not imply that Analog Devices approves of our use or description of their software.) Inside of this directory are:
 - a. Three files:
 - i. *InstructionsToInstallandUseLTspiceXVII.pdf*, an unofficial document we wrote documenting our installation setup and software features we found useful when working on this laboratory.
 - ii. *LTspiceXVIINotesforUsageonMac.pdf*, an unofficial document based on Craig Burkhart's tips to get LTspiceXVII to work on his Mac.
 - iii. *LTspiceXVIILaboratoryExercise.pdf*, an exercise the students in our class work through in order to learn some concepts of power engineering using LTspiceXVII.
 - b. Two directories in which to include custom SPICE files for use in LTspiceXVII, as discussed in *InstructionsToInstallandUseLTspiceXVII.pdf*:
 - i. *lib*, a directory containing SPICE files for power components not found in the LTspiceXVII distribution. We obtained the files in this directory from the websites of various manufacturers. These files are meant to be used for educational purposes only. Inclusion of these files in this website does not imply that we have verified the accuracy of these files.
 - ii. *sym*, a directory containing symbol files for power components not found in the LTspiceXVII distribution the SPICE files of which we placed in the *lib* directory.