UTILITY APPLICATIONS OF POWER ELECTRONICS

SESSION no. 6

ECE 529
Installing ATP:

- Minimum to Download
  - Mingw version of ATP
  - ATPDraw -- latest version or latest patch
    - Presently Atpdraw60.zip (ATPdraw59 is fine for this class)
  - PlotXY
- Installation complete set is a little tricky
- Option: ATP Easy Installer
  - Download from secure sites in Japan

Installing ATPDraw

- Installation is fairly easy
- Avoid installation path "Program Files"
- The space in the file name can create problems running ATP from ATPDraw
  - Install it somewhere else. I normally install in "C:\tools\prog\ATPDraw"
Running ATP from ATPDraw

- Still need a copy of ATP
- Licensed users can get other versions
- Follow installation directions for yours
- ATPDraw calls ATP from a DOS Batch file (extension *.bat)
  » For example, I call it "RUNATP.BAT"
- Passes full path to file when calls ATP
- Easy Installer Creates *.EXE file

Sample Batch File

- The following batch file is for Ming32 ATP
  SET GNUDIR=C:\tools\prog\atp\n  SET PATH=C:\tools\prog\atp;"%PATH%"
  tpbig both %1 s -r

The first line defines variable GNUDIR
  » Different ATP versions use different name
  » Sets program working environment
  » The final "\" is important
Further Settings

- The "Files&Folders" tab settings are ok
- However, you do want changes in the View/ATP tab
  - Select "Edit settings" tab
  - You may want to change some of the default settings. However, you can change any of these for a specific data file

Simulation Settings

- Default time step (deltaT) is very small
- Default run time short
- Xopt and Copt ok
- Select "Power Frequency"
  - Reset to 60 Hz from 50Hz
  - Can mess up some sources