

ENGINEERING PHYSICS 3W4

Assignment #7

Either:

Find a practical application of a Fourier Transform and explain it. Possibilities include diffraction, pattern recognition (images, sound, etc), sonograms, signal analysis and manipulation (filtering, etc) Your product should be either in html format, ready for posting on the web, or in a single electronic document (such as WordPerfect or MS Word) that I can turn into a pdf document.

Or:

Review a journal paper that uses FT for a practical application. Your product should be either in html format, ready for posting on the web, or in a single electronic document (such as WordPerfect or MS Word) that I can turn into a pdf document. The reviewed paper should be attached. Focus on the FT aspects.

Or:

Come up with a comprehensive list of applications with references and links. Your product should be in html format, ready for posting on the web.

I expect you to go beyond the class notes. You may work in groups or alone.

The best submissions will be posted on the web and may be used as the basis for some of the questions on the final exam.

I suggest that you allot approximately 6 to 10 hours for the completion of this assignment.