EL6673 Resonant Power Converters 3.0

Spring 2019

Outline: Class D and E rectifiers. Class D inverters. Class E inverters. Phase-controlled resonant inverters. Resonant dc-dc converters. Soft switching. Quasiresonant and multiresonant converters. Control and modeling of resonant converters.

Text: Marian K. Kazimierczuk and Dariusz Czarkowski, *Resonant Power Converters*, 2nd ed., Wiley 2011.

Lecture: Monday 12:25-2:55 PM in 2MTC 9.007

Instructor: Dariusz Czarkowski

Contact: LC 200H, +1 646 997-3256, dc1677@nyu.edu

Office hours: Wednesday 11:15-12:15 PM or by appointment

Web pages and other handouts:
Course page - login to NYUClasses
Other handouts will be provided by the instructor.

Exams: 1 midterm (March 25th), comprehensive final (May 20th). All exams are open-book and open-notes.

Mini-Project: A simulation project will be assigned around the midpoint of the semester.

Homework: Several sets of problems will be assigned as a homework. Solutions will be distributed after a submission deadline. Homework submission is a part of the final grade.

Grading:
homework 10%
project 20%
midterm 20%
final 50%