

Instructor:

蔡淳仁 (Chun-Jen Tsai), cjtsai@cs.nctu.edu.tw

Office: EC 718, Phone: ext. 31628

Office hours: 1B3CD

Textbook:

Dennis G. Zill, and Warren S. Wright, *Differential Equations with Boundary-Value Problems*, 9th edition, 2018, Cengage Learning.

Outline:

Tpoic 1 Introduction to differential equations

Tpoic 2 First-order differential equations

Tpoic 3 Higher-order differential equations

Tpoic 4 Modeling with Higher-order differential equations

Tpoic 5 The Laplace transforms

<< Midterm: Nov/2019 >>

Tpoic 6 Linear systems of differential equations

Tpoic 7 Power series methods

Tpoic 8 Fourier series methods

Tpoic 9 Partial differential equations and boundary value problems

<< Final: Jan/2020 >>

Evaluations:

Grading is based on 10 pop quizzes (25%), one mid-term exam (35%), and a final exam (40%).

Class website:

<http://www.cs.nctu.edu.tw/~cjtsai/courses/deq>