CEE5720/ME-5990 Structural Dynamics

Spring 2024

Textbook: "Structural Dynamics, Theory and Applications". J.W. Tedesco, W.G. McDougal and C.A. Ross.

Complementary book: "Fundamentals of Vibration". L. Meirovitch.

Note: Graduate students must solve all problems. Undergraduate students are not required to solve problems in **bold and underlined**.

List of Assignments

Assignment #1 – Solve problems 1.6, 1.8, **1.9**, 1.12, 1.13, 1.14, **1.21**, 1.29, 1.32 from "Fundamentals of Vibration" Due 02/02

Assignment #2 – Textbook problems 2.1, 2.2, 2.3, 2.4, 2.5, **2.6**, 2.7, **2.9**. Due 02/16

Assignment #3 – Textbook problems 3.6, 3.11, 3.15, **3.16**, 3.19, 3.21, 3.31, **3.32**. Due 03/01

Assignment #4 – Textbook problems 4.1, 4.2, **4.3**, 4.5, 4.6, 4.11, 4.19, **4.27**. Due 03/15

Assignment #5 – Textbook problems 5.1, 5.3, 5.5, **5.11**, 5.14, 5.25, 5.31, **5.33**, 5.37, 5.39, **5.42**. Due 03/29

Assignment #6 – Textbook problems 6.1-6.4, **6.5**, 6.26, 6.38, **6.40**, 6.41, 6.42. Due 04/05

Assignment #7 – Textbook problems 7.1, 7.3, 7.7, 7.18. Due 04/12

Assignment #8 – Textbook problems 9.1, 9.2, 9.4, 9.11, **9.12, 9.15 (Fig.P9.11) (a)-(f)**. Due 04/19

Assignment #9 – Textbook problems 10.13, **10.16**, 10.17, **10.19**, 10.21, 10.22. Due 05/26

Assignment #10 – Textbook problems 12.1, 12.5, 12.6, 12.8. Due 05/03