

WORCESTER POLYTECHNIC INSTITUTE

MECHANICAL ENGINEERING DEPARTMENT

HOMEWORK – CHAPTER 04

COURSE No.: ME-5304, C'2026

COURSE NAME: Laser Metrology and Nondestructive Testing (NDT)
<http://www.wpi.edu/~cfurlong/ME-593N>

DATE: 04 February 2026

DUE: As indicated in Website of our course

NAME: _____

INSTRUCTOR: C. Furlong
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NOTE: In all solutions, state explicitly every assumption and/or approximation made, explain every procedure, and justify its use. Dimensional analyses are absolutely necessary. All results must be expressed in appropriate units. PLEASE, ALWAYS SHOW ALL WORK, while writing your results only on one side of the sheet(s) of paper; start each problem on a new sheet. *Attach this sheet to your solution. Show your work using a clear and professional style.*

PROBLEM 4.1. Prepare for course discussions: critical review of selected papers provided by the instructor. This includes preparing summaries of each paper to include:

What is being described?

Why is topic of interest?

How – methods used?

Results obtained, and

Use of the results.