

IP1: Electrical Impedance Tomography: Computation and Applications

Take-Home Exercises

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Due: 31 August 2026

Instructions

This course is graded pass/fail based upon solutions submitted to the following exercises. The assignment contains ten problems arranged into five pairs. Complete **exactly five problems: one problem from each pair**. Within every pair, choose either Option A or Option B. Each selected problem will be evaluated on a 0–2 scale, for a maximum total of 10 points.

What to submit

Submit **one PDF file** to the instructor's email address, alsaker@gonzaga.edu, with the subject line **"IP1: Exercise Submission"**. Your PDF must:

1. Include your name and a list of the five problems you selected (e.g. "1A, 2A, 3B, 4B, 5A").
2. Contain exactly one solution from each pair.
3. Begin each selected problem on a new page and label it clearly (e.g. "Problem 3B").
4. Show enough intermediate reasoning or calculation for the work to be checked, along with everything requested in the problem statement.

For a MATLAB problem, paste the requested plots and results into your PDF. If code is requested, insert it into the PDF. Do not submit .m files. Include only code that you were specifically asked to write or modify; do not submit an unannotated transcript of the entire program or Command Window.

Grading

Each selected problem will be evaluated as a whole according to the following scale:

Score	Evaluation	Standard
2	Satisfactory	The solution addresses the required parts and demonstrates a sound understanding of the relevant ideas. Minor errors or omissions may be present.
1	Partially satisfactory	The solution shows meaningful progress and some relevant understanding, but contains a substantial error or omission, or does not adequately justify or interpret its conclusions.
0	Not satisfactory	The solution is missing, largely incomplete, substantially off track, or does not provide enough relevant work to demonstrate understanding.

To receive a passing evaluation for this course, you must submit a solution for **one problem from each of the five pairs** and earn at least **8 out of 10 points** overall.