

ASSIGNMENT 3: Phase-Only Image Formation Techniques

Due: Tuesday, February 13

Objective: The main objective of this programming assignment is to experience image formation by the phase-only techniques.

- (A) Repeat the exercise in *Assignment 2* with only the phase information of the received waveform data, by setting the magnitude of the data to a constant.
- (B) Repeat the exercise with only the phase information of the received waveforms and phase-only integration kernel (Green's function) for image reconstruction.
- (C) Plot the magnitude distribution of your reconstructed images.

Report format:

1. Cover page.
2. Images.
3. Summary: (comments based on your observations)
4. Appendix: (computer code)