Examination Feedback for EEE334/6012 – Antennas, Radar & Navigation
Spring Semester 2014-15

Feedback for EEE334/6012 Session: 2014-2015

Feedback: Please write simple statements about how well students addressed the exam paper in general and each individual question in particular including common problems/mistakes and areas of concern in the boxes provided below. Increase row height if necessary.

General Comments:

Question 1:

 Generally well answered:
Part a:Main mistakes were not identifying the use of the complex conjugate
Part b: Most people got this wrong. Main problems seemed to be a lack of understanding of how aperture size effects beamwidth and how aperture shaping can reduce sidelobe levels.
Part c: No general problems
Part d: Some integration errors such as using the wrong limits or simple maths mistakes

Question 2:

 Generally well answered:
Part a: Main uncertainty seemed to be in effective area
Part b: No obvious problems
Part c: Some people could not recall the derivation and so did poorly on this question
Part d: Some people forgot to use aperture efficiency

Question 3:

 Quite a poorly answered question
Part a: Most people derived the mon-static equation
Part b: Almost nobody could do this. There seemed to be a lack of understanding of how objects scatter as a function of angle.
Part c: No general problems here, some maths errors but nothing major

Question 4:

Generally well answered
Part a: No major problems
Part b: Main problem was forgetting the equation for SJR and not being able to derive from first principles.
Part c:No major problems here