

Advanced Comm. Theory- EE401: Comments 2022-2023

Introductory Concepts

1. No special comments

Diversity Theory

2. No special comments
3. Appendix-A (Slides 35-37): for reference *

SIMO, MISO, MIMO Wireless Communications

4. For reference *:
 - Slide 15
 - Equ. 18
5. Eqs 70, 71, 77, 78: important

Array Receivers: SIMO, MIMO

6. Recognise but no need to remember:
 - Eqs 42, 43, 44, 45, 46, 47, 48, 49,
7. For reference *:
 - Slides 36, 37, 38, 39, 40, 41, 43, 44, 72, 73, 74, 109, 110, 117

Spatiotemporal Wireless Comms, mmWave Comms and Massive MIMO

8. For reference *:
 - Slides 61, 98, 99, 102, 103, 115, 117
9. Recognise but no need to remember:
 - Equ 4-8, 17-21, 26, 28, 29

Localisation

10. The whole topic: for reference * (this has been examined in the Part B coursework):

NB:

* the term "for reference" refers to non-examinable material