Errata: Antennas and Radar for Environmental Scientists and Engineers, Cambridge Univ. Press, 2018.

- 1. On page 4 in the introduction, the reference to Appendix A should come at the start of the second-to-last paragraph where it would make more sense.
- 2. Section 2.3.4 mistakenly states that the highest directivity that can be achieved with a dipole antenna is approximately D = 2 for a wire with a length $L \approx 1.22\lambda$. The correct value is approximately D = 3.3. This can be found readily by reworking homework problem 2.7.
- 3. The discussion at the start of chapter 3 is describing the scalar addition of the electric fields from identical antenna array elements in the limit where the rays from the elements to the observer can be regarded as being parallel. Consequently, the electric fields on the left sides of the equations on page 71 should not be in bold. Scalar addition is only correct for linearly polarized signals, but other polarizations could be dealt with through decomposition into linear components.
- 4. In equation 4.1, the exponent should contain the term $|\mathbf{r} \mathbf{r}'|$, and the **J** factor should be \mathbf{J}_s . Likewise, the *J* terms in section 4.1.1 should all be J_s .
- 5. Section 5.4 has some misplaced complex conjugate symbols (*). Specifically, equation 5.10 should read

$$\left|\int_{a}^{b} f^{*}(x)g(x) \, dx\right|^{2} \leq \int_{a}^{b} |f(x)|^{2} \, dx \, \int_{a}^{b} |g(x)|^{2} \, dx,$$

and the next sentence should begin "Identifying $f^* = F^*$..."

- 6. In section 6.6, the scattering wavevector k_s defined in the middle of page 162 should be typeset with a distinct font, e.g. k_s .
- 7. Fig. 9.5 is missing some annotations. The figure should appear this way:



Figure 9.5: ...

- 8. In section 12.3 in the discussion of WD processing, some formulas on pp. 339 and 340 have k_z terms which should instead be k_x . (There is no z component in this formulation.)
- 9. Bouguer's name is misspelled throughout the text.