

## Errata

The paper [P1] was originally published without several corrections made to the proofs. The version included in this thesis includes these corrections, but otherwise the paper is identical to the originally published version. For reference, the corrections are the following:

- Page 1651, row 8: “(20)” instead of “20)”
- Page 1652, equation (33) corrected.
- Page 1653, equations (38), (40), (41) and (42) corrected.
- Page 1654, row 2:  $r_o \rightarrow \infty$  instead of  $r_o \rightarrow 0$ .
- Page 1654, equations (43) and (46) corrected.
- Page 1655, equations (48) and (49) corrected.
- Page 1656, extra paragraph break removed.

In the paper [P3] on page 13, third row of Section 6, the word ‘arbitrary’ is misleading and should be removed from “near an arbitrary PEC object bounded by two intersecting spheres.”

In the paper [P4], the following mistakes should be corrected:

- Page 52, row 6–7: Replace ‘imaginary’ with ‘complex’ in “while  $\mathbf{k}$  is imaginary for the evanescent part  $\Gamma_e$ .”
- Page 54, below equation (13): The sentence about the translation function is wrong, or at least misleading. A better wording would be: “The *translation function*  $T(\mathbf{k}, \mathbf{D})$  is diagonal in the sense that for each  $\mathbf{k}$ , the incoming wave pattern depends only on the value of the far-field pattern for the same  $\mathbf{k}$ , that is, for  $N_s$  samples of the far-field pattern the computational cost of the translation is  $\mathcal{O}(N_s)$ .”
- Page 55, row 12: Remove repeated article in “a a suitably”.

In the paper [P5], on the last two lines of page 4, “ensure” should be “ensuring” and “larger that” should be “larger than.”