

This document contains a tracking of the changes made in different versions of the textbook “Foundations of Antenna Engineering – A Unified Approach for Line-Of-Sight and Multipath”, starting March 2015

There exist two PDF versions: One color version and another grey-scale version suitable for being printed.

<i>Date of change & PDF name</i>	<i>Explanation of changes</i>
150319 FoAE-1503	Finalized PDF versions Kildal-FoAE-1503. This was the compendium used in the Antenna Engineering course during Spring 2015. Printed in ca 30 copies. Sold via DC.
Corrections implemented in version below	Corrected error in Figure 10.8 in Chapter 10, and corresponding figure text. Switched Figure 10.8 b) with 10.8 c). Changed the figure text in Figure 10.8 b) to “y-directed magnetic currents”, from “z-directed magnetic currents”.
150402 FoAE-1504	Created PDF versions Kildal-FoAE-1504. This was the book printed in 300 copies and distributed at EuCAP 2015.
150421 FoAE-1504	Created new PDF versions of Kildal-FoAE-1504 This version has automatic PDF creation date on inner title page, and thereafter information about publisher, copyright, and warranty disclaimer on page iii.
150507 FoAE-1504	Created new PDF versions: After adding copyright-symbol © and adding the ISBN:number on page iii for both the grey and color versions. These versions were uploaded on the Kildal web page for free download and printing by registered users.
150814 Minor corrections that were found during the FoAE course. (FoAE-1510)	Corrections from Carlo, Jinlin, Jian and Madeleine. <ul style="list-style-type: none"> - Fig 3.6: changed figuretext to be “0.47 lambda dipole” instead of “halwave dipole”. This is more correct, since the figure is plotted by using 0.47 lambda in the matlab script. - Sec. 9.4.7: Changed “In order to keep these losses as small as possible, the subreflector must have a diameter $d < 10 \lambda / \sin(\Psi_{-0})$...” to “In order to keep these losses as small as possible, the subreflector must have a diameter $d > 10 \lambda / \sin(\Psi_{-0})$...”. - Fig. 9.15: Changed from “(b) Total aperture efficiency for $d/D=0.1$ with the main reflector diameter...” to “(b) Total aperture efficiency for $d/D=0.05$ with the main reflector diameter...” - Sec. 3.10.1: changed “This is a much larger diversity gain that what we have in...” to “This is a much larger diversity gain than what we have in...”. - The other changes that were made are found in the documents: “Kildal-FoAE-1503-color_CORRECTIONS_CarloPSKMSK” and

	<p>“Jinlin-mistakes”. The major changes in these documents are:</p> <ul style="list-style-type: none"> ○ Eq. 5.13 and 5.14: Add phi as an argument to G_d. ○ Fig. 10.3a: Changed TE_11 to TE_10. ○ Changed Fig 4.2: The current was coming out of the paper (.), but should be entering (x), so I changed that. <ul style="list-style-type: none"> - Eq.3.53: changed “cos(phi_0+90) to cos(90-phi_0) - Fig 10.3a: Changed l_g to lambda_g. - Changed section 3.1 (first paragraph), added slow and fast fading. - Sec: 3.3.3: Almost the last sentence, changed: “...presented in Fig. 5.9 and 10.9...” to “...presented in Fig 5.9 and 10.10...”. - Fig 3.7: Changed C(t) to C_opt(t) <p>Fig 3.9: Changed “Total efficiency port...” till “Total embedded efficiency” and “Diversity gain ...” to “Apparent diversity gain”.</p>
151014 FoAE-1510	<p>Created new PDF versions: The page margins was changed/improved, as well as the Cover, after feedback from Kwik-Kopy which printed the copies distributed at ISAP 2015.</p>
17-03-13 FoAE-1703	<p>Created new PDF versions: Nothing is changed from the previous version except that the index-list in the back is included, it was removed by mistake in the previous version.</p>