

Appendix C. Computed Radiation Patterns and Axial Ratios for the Hemispherical Helix

Each figure in this Appendix has two parts. Part (a) shows the far-field pattern of the 4.5-turn hemispherical helix discussed in section 4.4, while Part (b) illustrates the axial ratio.

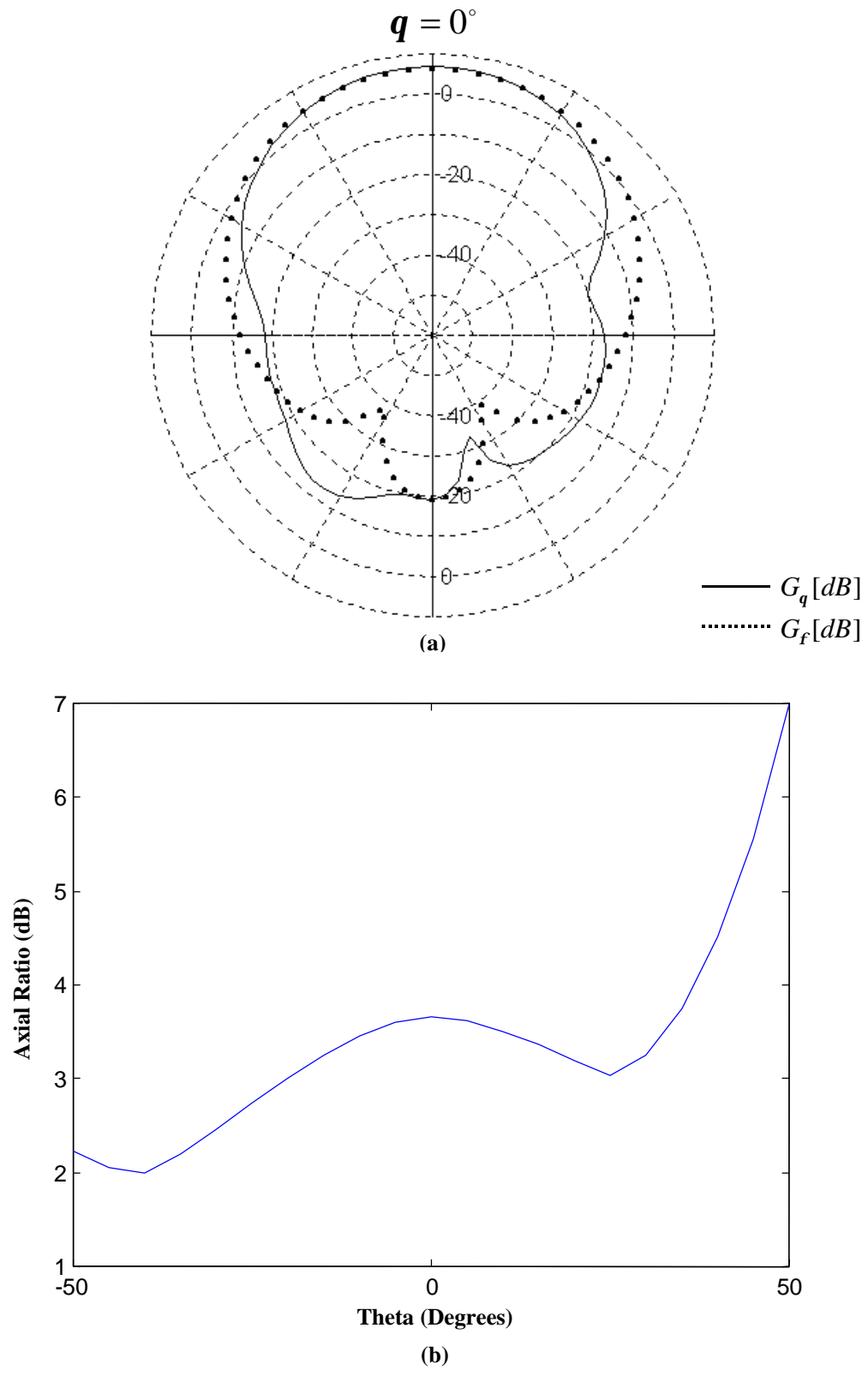


Figure C-1 Computed antenna properties of 4.5-turn hemispherical helix with a circumference of 1.11λ , (a) radiation pattern, and (b) axial ratio.

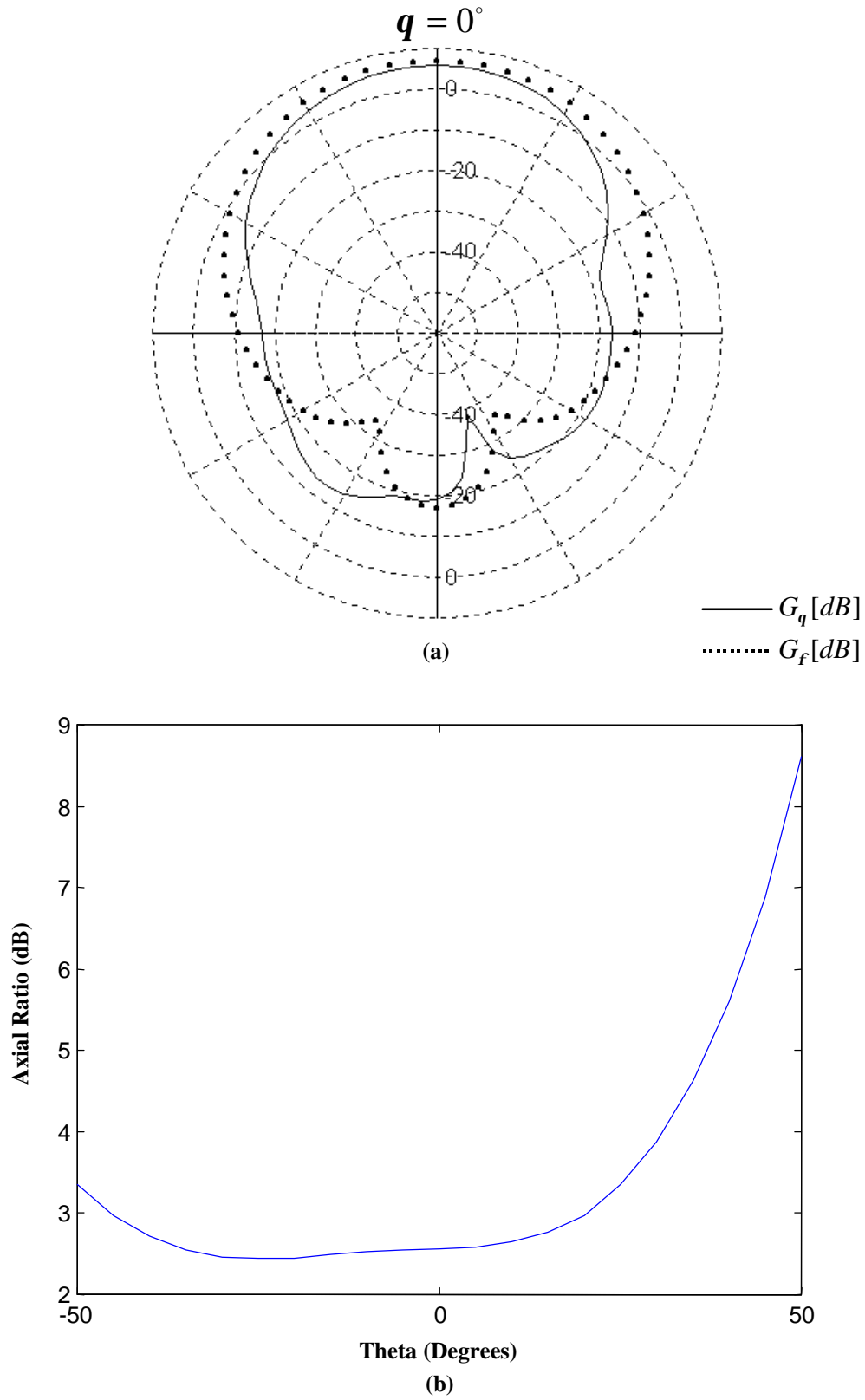


Figure C-2 Computed antenna properties of 4.5-turn hemispherical helix with a circumference of 1.13λ , (a) radiation pattern, and (b) axial ratio.

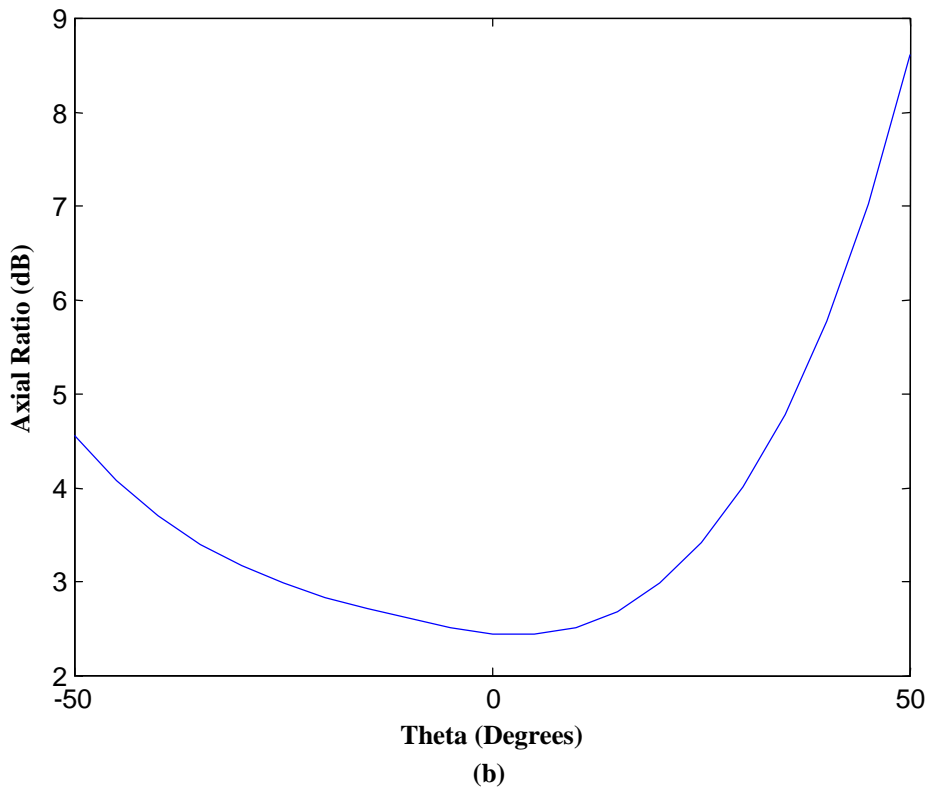
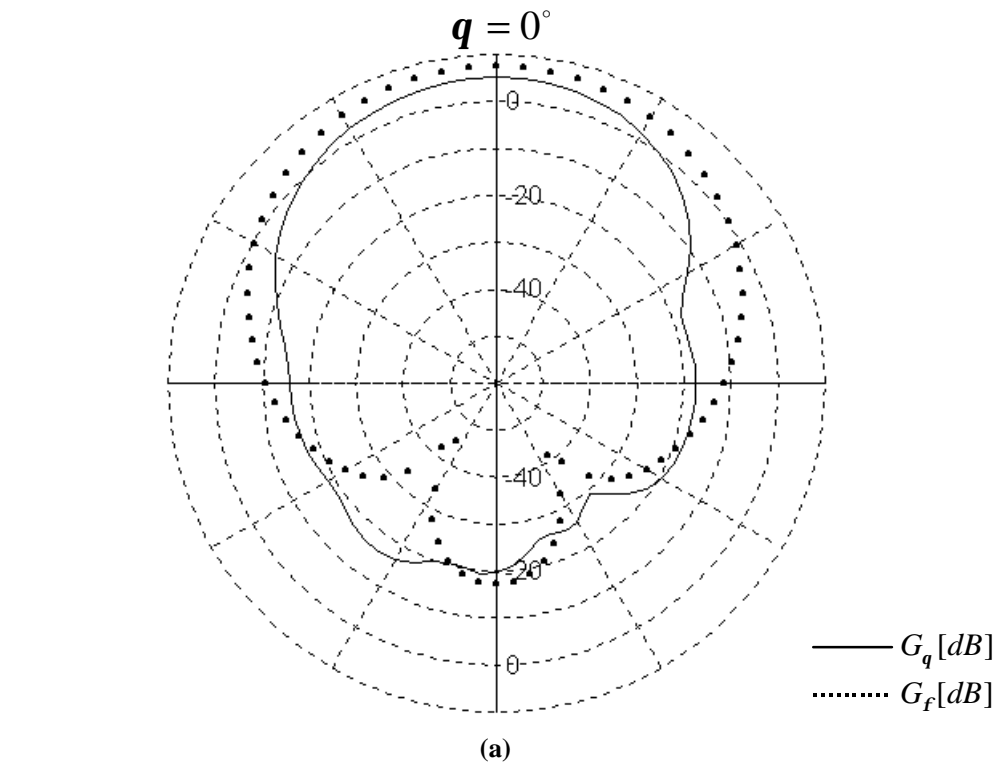


Figure C-3 Computed antenna properties of 4.5-turn hemispherical helix with a circumference of 1.15λ , (a) radiation pattern, and (b) axial ratio.

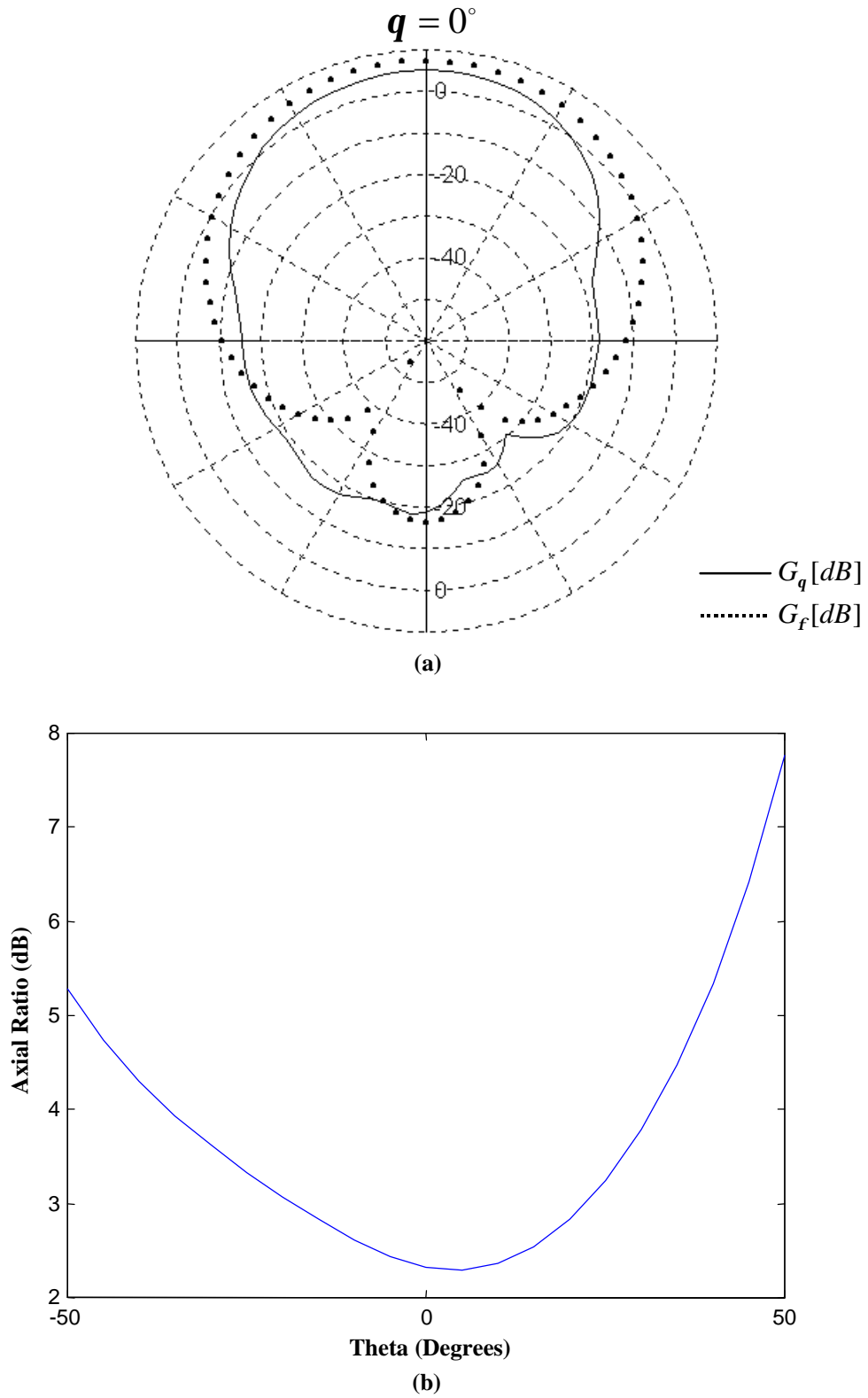


Figure C-4 Computed antenna properties of 4.5-turn hemispherical helix with a circumference of 1.17λ , (a) radiation pattern, and (b) axial ratio.

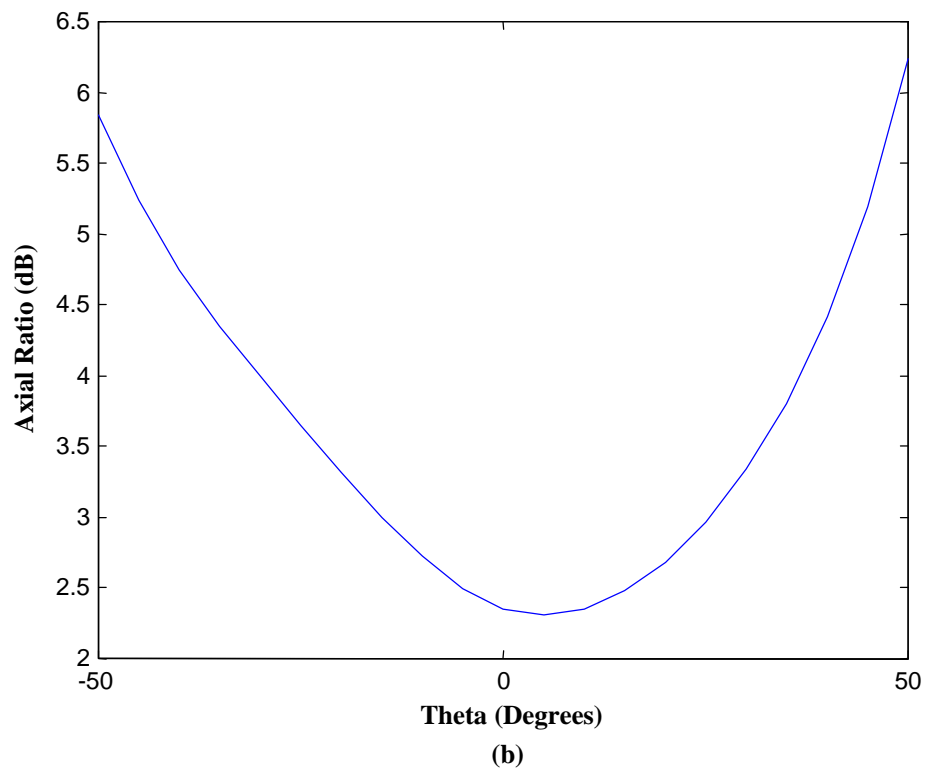
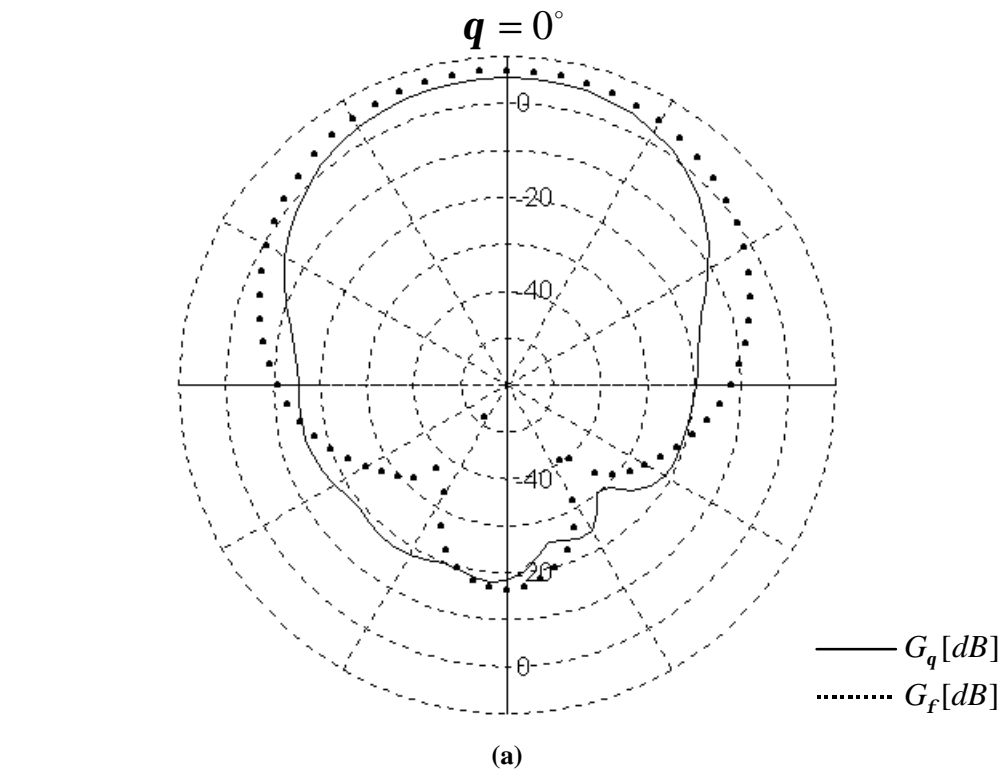


Figure C-5 Computed antenna properties of 4.5-turn hemispherical helix with a circumference of 1.19λ , (a) radiation pattern, and (b) axial ratio.

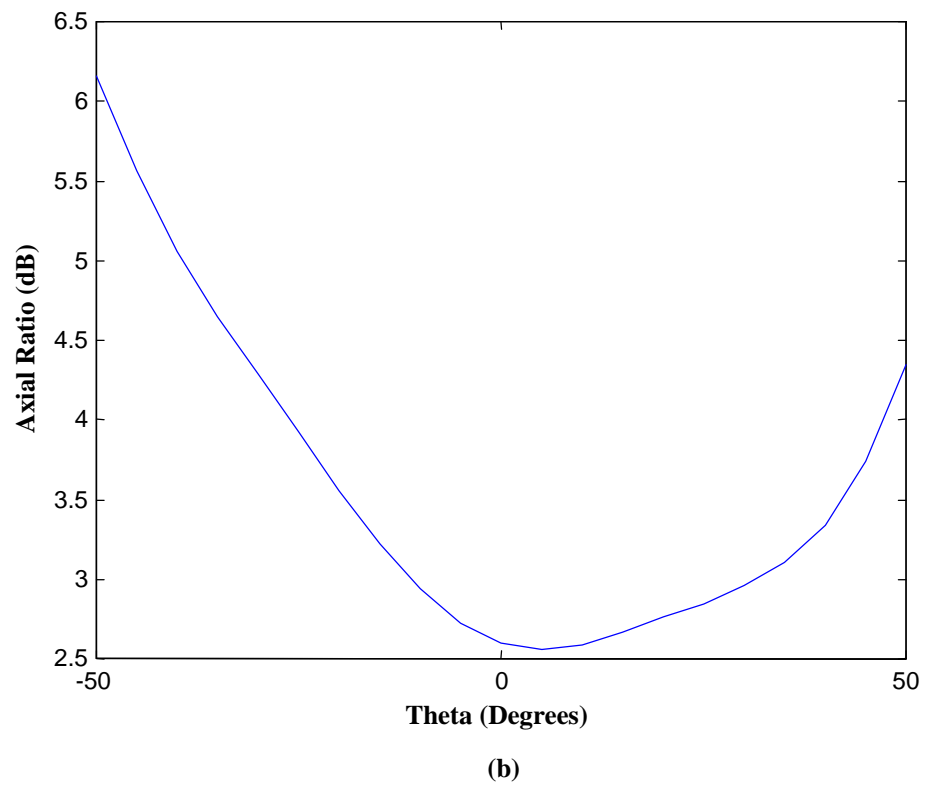
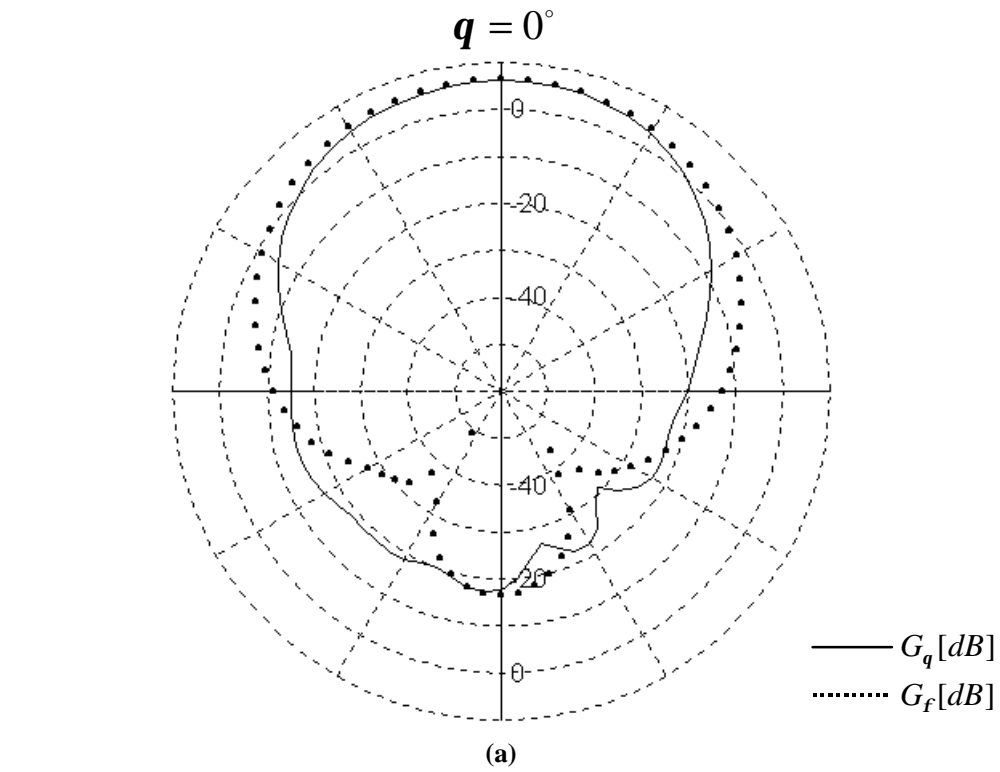


Figure C-6 Computed antenna properties of 4.5-turn hemispherical helix with a circumference of 1.21λ , (a) radiation pattern, and (b) axial ratio.

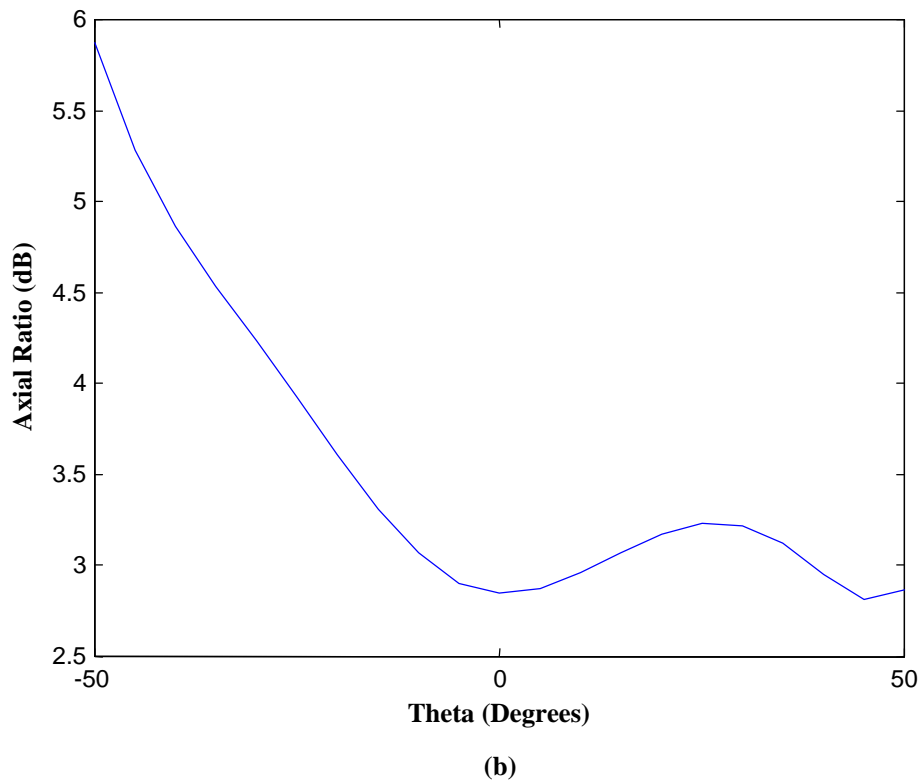
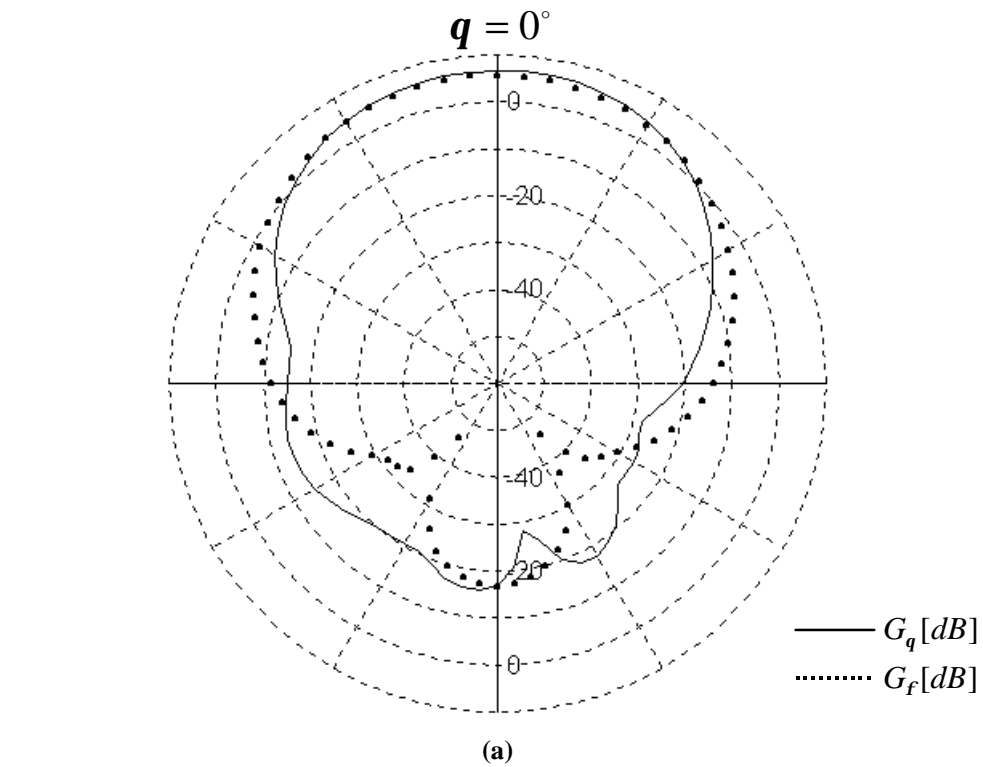


Figure C-7 Computed antenna properties of 4.5-turn hemispherical helix with a circumference of 1.24λ , (a) radiation pattern, and (b) axial ratio.

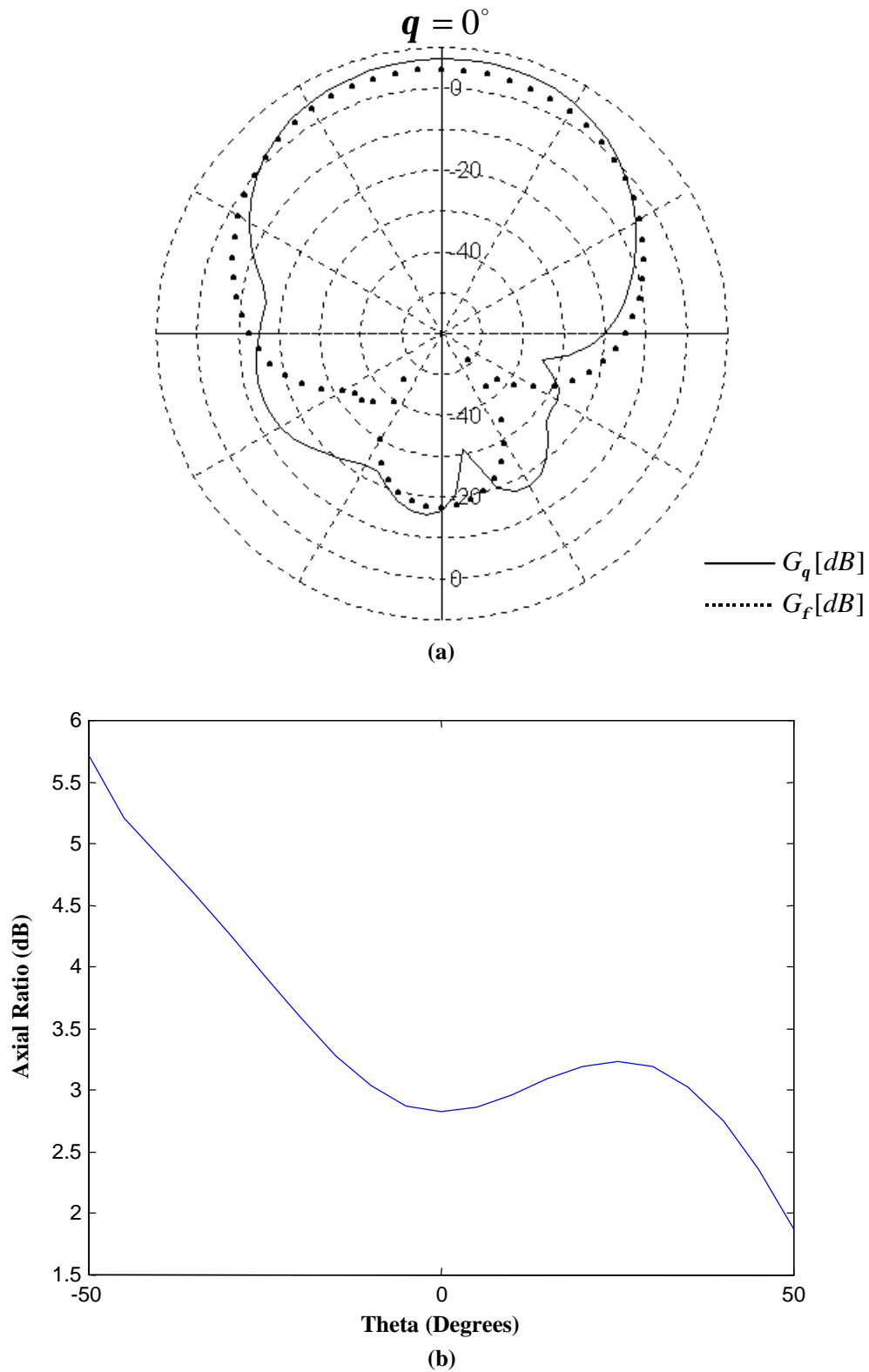


Figure C-8 Computed antenna properties of 4.5-turn hemispherical helix with a circumference of 1.26λ , (a) radiation pattern, and (b) axial ratio.