



# Folded Unipole Antennas: Theory and Applications: Theory and Applications

*Jeremy Raines*

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**Folded Unipole Antennas: Theory and Applications: Theory and Applications** Jeremy Raines

**Harness the Latest Advances in Folded Unipole Antenna Technology, Including New Detuning, Geophysical and Biomedical Applications**

*Folded Unipole Antennas: Theory and Applications* is the first comprehensive sourcebook on the design and uses of folded unipole antenna technology, featuring never-before-published mathematical equations and configurations.

Written by Jeremy K. Raines, an internationally recognized antenna expert, this unique “one-stop” reference offers you a detailed account of the physics underlying the remarkably compact, broadband, and versatile folded unipole antenna, as well as mathematical models suitable for design and analysis. Filled with helpful illustrations, *Folded Unipole Antennas* features:

- Never-before-published electromagnetic field equations that remove obstacles to improving design and extending use
- A full chapter on detuning, a process that reduces radar scattering cross section and electronically eliminates structures causing unwanted radiation and interference
- A full chapter about arrays of folded unipoles, featuring a new and easier approach to describing the electromagnetic coupling between elements
- A wide range of folded unipole antenna applications, including detuning, multiplexing, geophysical prospecting, and biomedical sensing

## **Inside This Landmark Antenna Engineering Guide**

• Introducing the Folded Unipole Antenna • The Simplest Configuration • The Two-Stage Unipole • The Three-Stage Unipole • The N-Stage Unipole • The Most General Configuration • Antenna End Effect and Top Loading • Arbitrary Cross Sections • Detuning • Arrays of Folded Unipoles • Present and Future Applications

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