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Appendix B: Array Processing Literature

3-1.2 Figure 2. Antenna Gain Figure 3. Antenna Beamwidth Where D (2,N) is the directivity in dB, and the radiation pattern power in a specific direction is Pd(2,N), which is normalized by the total integrated radiated power. Another important concept is that when the angle in which the radiation is constrained is reduced, the directive gain n ...

ANTENNA INTRODUCTION / BASICS Rules of Thumb

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The length of the antenna, from equation 3 is 9.48 ft 50.1 492 0.965 = x or 9 ft 53/4inches. The answer is obtained directly in inches by substitution in equation 4 113.7 inches 50.1 5904 0.965 = x The length of a half-wave antenna is also affected by the proximity of the dipole ends to nearby conductive and semiconductive objects.

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1 Elliot R. S. Antenna Theory and Design 1981 New York, NY, USA Prentice-Hall 2 Lo Y. T. Lee S. W. Antenna Handbook Vol 3: Antenna Applications 1993 New York, NY, USA Chapman & Hall 3 Elliott R. S.

1. Introduction

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