Directivity of basic linear arrays - DTU Orbit (14/12/2018)

**Directivity of basic linear arrays**

For a linear uniform array of $n$ elements, an expression is derived for the directivity as a function of the spacing and the phase constants. The cases of isotropic elements, collinear short dipoles, and parallel short dipoles are included. The formula obtained is discussed in some detail and contour diagrams of the directivity as a function of the spacing and the phase constants in the above-mentioned cases are exhibited.

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