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$\sum_{m=1}^M |a_m| e^{j\delta_m} = \sum_{m=1}^M |a_m| e^{j\zeta_m} e^{j\delta_m}$  (3.2) Where  $|a_m|$  Is The Magnitude And  $\delta_m$  Is The Phase Of The Weighting Of The  $m$ th Element. The Normalized Array Factor Is Given By  $F(\theta, \phi) = \frac{1}{M} \sum_{m=1}^M |a_m| e^{j\zeta_m} e^{j\delta_m} e^{j\mathbf{r}_m \cdot \mathbf{u}(\theta, \phi)}$  (3.3) This Would Be The Same As The Array Pattern If The Array Consisted Of Ideal Isotropic 20th, 2024

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