

ECCITAZIONI COMPLESSE PER ARRAY LINEARI SOMMA-DIFFERENZA: BEAM STEERING E NULLING

F. Fiorese

Abstract

L'ambito del progetto riguarda il tracking di oggetti, in particolare scenari applicativi RFID. Il principio su cui si basa la tecnica monopulse e' la tx di un segnale (monopulse) del quale si vuole ricevere in seguito l'eco per ottenere informazioni sulla posizione del bersaglio. Questo segnale puo' essere considerato come quello che permette al tag (se passivo o semi-passivo) di caricarsi e tx a sua volta il proprio identificativo, ed eventualmente ulteriori info, al lettore.

IPOTESI :

direzione di arrivo (DoA) del segnale desiderato (risposta del tag) o eventuali interferenti nota

PROGETTO:

- 1) controllo delle fasi per array somma-differenza al fine studiare il comportamento dei pattern generati (risoluzione angolare, comportamento lobi secondari)
- 2) posizionamento simultaneo di nulli in pattern somma e differenza

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*This report is submitted in partial fulfillment of the degree of the course "DCM".
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