

Sintesi Automatica Di Antenne HORN Mediante Ottimizzazione Con Algoritmo PSO

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Abstract

Lo sviluppo di un sistema radar per la misura a distanza della velocità di corsi d'acqua richiede l'integrazione nel sistema di un'antenna custom avente un diagramma di irradiazione idoneo ad illuminare determinate porzioni di superficie dell'acqua alle distanze tipiche di misura. Non essendo disponibili commercialmente antenne idonee all'applicazione, nel progetto si richiede di sviluppare una procedura SW finalizzata al progetto di un'antenna idonea ai fini dello sviluppo del sistema radar doppler.

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