

SINTESI DI ANTENNE PER DISPOSITIVI RFID MEDIANTE GEOMETRIE FRATTALI

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Abstract

I dispositivi RFID passivi, attualmente, utilizzano due dispositivi radianti/riceventi: il primo per ricavare la corrente necessaria al funzionamento del transponder mentre la seconda antenna serve per fornire connettività wireless all'apparecchio.

Lo scopo di questo progetto e' lo studio e sintesi di antenne multifunzione frattali che permettano di integrare in un'unica soluzione l'alimentazione e la connettività wireless.

L'innovazione del progetto sta nell'integrare in un'unica antenna sia l'alimentazione che il collegamento wireless. I vantaggi che questo progetto porta alle antenne RFID sono:

-Riduzione dei costi: ho una antenna invece di due, minor complessità dei circuiti in quanto ho solamente un dispositivo radiante.

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