Abstracts

Reconfigurable quasi-fractal transmission line structures

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Several transmission line structures bearing fractal-like characteristics are presented. Using pin-diode switches, the transmission line structures can be reconfigured into quasi-fractal self-similar structures. The reconfigured structures closely resemble the pre-reconfigured transmission line structures both physically and electromagnetically, with the frequency response inversely proportional to the number of segments involved. Proposed quasi-fractal transmission fine structures for both microstrip and coplanar waveguide are presented and biasing issues are discussed.

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