

# Abstracts

## High-impedance electromagnetic ground planes

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*D. Sievenpiper, L. Zhang and E. Yablonovitch. "High-impedance electromagnetic ground planes." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1529-1532 vol.4.*

A new type of metallic electromagnetic structure has been developed that is characterized by having high surface impedance. Although it is made of continuous metal, and conducts DC currents, it does not conduct AC currents within a forbidden frequency band. Unlike normal conductors, this new surface does not support propagating surface waves, and it reflects electromagnetic waves with no phase reversal.

[Return to main document.](#)