

## Resonant Electromagnetic Power Deposition in Man and Animals

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O.P. Gandhi. "Resonant Electromagnetic Power Deposition in Man and Animals." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 282-284.

Strongest power deposition for biological bodies is found for fields polarized along the longest dimension for frequencies such that the major length is about one-half wavelength of radiation. Peak absorption, in the presence of ground effects, is observed at frequencies one half as much as for bodies isolated in free space. Power distribution under conditions of resonance is determined. At resonance, an effective absorption area of 2.5 to 3.5 times the shadow cross section is measured.

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