

## Electromagnetic propagation into reinforced-concrete walls

---

*E. Richalot, M. Bonilla, M.F. Wong, V. Fouad-Hanna, H. Baudrand and J. Wiart.*

*"Electromagnetic propagation into reinforced-concrete walls." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1255-1258.*

A 3D finite element method with decomposition on Floquet's modes is presented to study the transmission parameters of building walls. The influences of gratings in concrete walls, of wall dimensions, and of the electromagnetic excitation with single field of a plane wave or with diffuse field, on wall transmission properties are then studied by this method.

 [Return to main document.](#)