

Transmission Lines for Continuous-Access Guided Communications in Mines and Tunnels

V. Rawat and J.C. Beal. "Transmission Lines for Continuous-Access Guided Communications in Mines and Tunnels." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 136-138.

A combined experimental and theoretical investigation of unorthodox transmission lines for continuous-access guided communications in mines and tunnels is described. A theoretical model for loose-braided coaxial cable with a contaminating layer of dirt is introduced and a novel experimental technique is discussed for measurements on such lines at VHF/UHF frequencies.

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