

Radio Channel Simulator

UT-B ID 4000083



Technology Summary

Radio Channel Simulator (RCSim) is a simulation package for making site-specific predictions of radio signal strength. The software computes received power at discrete grid points as a function of the transmitter location and propagation environment. It is intended for use with wireless network simulation packages and to support wireless network deployments. The propagation model predicts signal strength with greater accuracy and in more detail than competing models. Applications include the design of wireless networks for use underground (e.g., in mines), factory floors, and other, similarly complex propagation environments. These types of applications are inaccessible to most contemporary approaches.

Advantages

- Greater accuracy and detail

Potential Applications

- Supports wireless network deployments in complex propagation environments

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