

Article Description: This paper presents a simple methodology for modeling coexistence interference in unlicensed bands, and the application of such a model to the outage performance analysis of a hybrid direct-sequence frequency hopping spread spectrum signal. The quantitative evaluation of signal outage in a coexistence environment provides valuable insight that can be utilized for better management of interference.

Excerpts for highlighting:

1. The sanction for unlicensed use of the ISM band predicates that efficient coexistence is essential for successful operation of systems in this band.
2. The significance of this interference modeling approach is that it showcases a simple and sufficiently accurate methodology for profiling emissions in an unlicensed band that can be used for different interference scenarios.
3. Successful signal transmission in a wireless environment dictates that the desired signal be received with adequate strength and signal-to-interference-plus-noise ratio in the presence of interfering emissions from other sources.