

Spread spectrum techniques in wireless communication

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Abstract:

This article discusses about spread-spectrum technique, the goal is to deliberately spread the transmitted electromagnetic energy in the frequency domain and receive the user data signal using the same pseudo random code used in the transmitter. Critical advantages of DSSS systems are related to their ability to provide secure communication and be robust against continuous time narrow band jamming with low spectral density power.

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Early Wireless Applications

Many innovative people have faced the challenge of developing long distance communications with various levels of success. One of the earliest techniques was using fire and smoke as visual signals. The first technical contribution to the field of telecommunication was made by Guglielmo Marconi (1874) who developed a practical wireless system to transmit telegraph messages. Although unsuccessful, Marconi's system introduced telegraphy for marine signaling. A ships' crew could be warned of potential dangers like rocky coastlines if wireless telegraphs were installed. This breakthrough led to substantial improvements in safety warning systems with performance that was independent of weather conditions such as rain, wind and smog.

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