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In order to adapt to the complex signal propagation environment in inland areas, increase the success rate of signal demodulation, and reduce the demodulation threshold of the receiver, this article proposed a new modulation method for eLORAN data channels, APM modulation, without changing the existing eLORAN system, eight pulses are added after the existing pulse set, and the presence or ...

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Understanding I/Q Signals and Quadrature Modulation

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The aim of analog modulation is to transfer an analog baseband (or lowpass) signal, for example an audio signal or TV signal, over an analog bandpass channel at a different frequency, for example over a limited radio frequency band or a cable TV network channel. The aim of digital modulation is to transfer a digital bit stream over an analog communication channel, for example over the public switched telephone network (where a bandpass filter limits the frequency range to 300–3400 Hz) or ...

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The modulated signal is then transmitted over a channel, after which the original information-bearing signal is recovered through a process of demodulation.

Modulation is applied to information signals for a number of reasons, some of which are outlined below. As is noted in analog-to-digital

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Demodulation. As discussed in the AM modulation page, the multiplication operation used to perform amplitude modulation has the effect of transferring the baseband spectrum to a band surrounding the positive carrier frequency (+f_C) and the negative

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