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Abstract The design of communication symbols that may be embedded on an intra-pulse basis into the backscatter generated by a high-power, pulsed radar is considered. This framework requires the asyn-chronous detection of transmitted symbols in a high interference environment that degrades the capabilities of conventional intercept receivers.

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Determining the character of the intrapulse modulation gives valuable insight into the radar's function and design. The term intrapulse refers to the shape of the pulse envelope (or amplitude modulation function) and also to the frequency or phase variations within the pulse. If the carrier is not frequency modulated, the pulse is sometimes referred to as a CW pulse.

It gives you new insight into PRI and intrapulse analysis so you can obtain better results and more data for identifying signals. Supported with over 240 illustrations and more nearly 300 equations, this in-depth resource helps you more fully understand the benefits and limitations of ELINT information that is so crucial in electronic warfare ...

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