Abstracts

A Microminiature Monoscan-Converter for Use in Tracking Antenna Systems

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Many methods have been devised to achieve accurate tracking capability in antenna systems. The sequential lobing technique was one of the earliest methods and was commonly used in early airborne-interceptor radar. Sequential lobing provides angle tracking information via amplitude comparisons between time shared antenna beam positions. This method has now been largely replaced by conical scan and monopulse tracking techniques. Conical scanning is achieved by mechanical or electrical rotation of the antenna beam axis. The output amplitude is then analyzed to provide directional error signals. The monopulse technique uses multiple, simultaneous beams to provide complete angular tracking information in real time.

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