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## **Principles of Modern Radar - GBV**

Principals of Modern Radar is the first in a series, covering basic radar concepts, radar signal characteristics, radar subsystems, and basic radar signal processing. This text is the second in the series and contains advanced techniques, including the most recent developments in the radar community.

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It provides a very complete overview of radar at a conceptual level. This book is not suited for developing designs or simulations. As an introduction it does a good job. The math is limited and the text is very well and very thoroughly illustrated.

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Radar Principle The electronic principle on which radar operates is very similar to the principle of sound-wave reflection. If you shout in the direction of a sound-reflecting object (like a rocky canyon or cave), you will hear an echo. If you know the speed of sound in air, you can then estimate the distance and general direction of the object.

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