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Airborne Early Warning System Concepts (Scitech Radar and Defense)

Maurice W. Long

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Supported by 202 equations and 170 illustrations, *Airborne Early Warning System Concepts* is an invaluable reference tool for a wide audience.

It will be a welcome library addition for the engineer, scientist, system integrator, user, designer, or manager with interest in AEW concepts. It is also suitable for students and professors of electrical and system engineering or military science.

Key Features
Airborne Early Warning Concepts provides broad coverage of AEW system concepts and enabling technologies, including:

* The development of AEW, with photographs of early and modern AEW aircraft
* Missions and system requirements
* Fixed wing aircraft, aerostat and airship systems
* Antenna/aircraft configurations
* Radar surveillance and height finding
* Example AEW systems
* Automatic Tracking
* Noncooperative target recognition (NCTR)

This comprehensive discussion of airborne early warning (AEW) system concepts encompasses a wide range of issues, including capabilities and limitations, developmetal trends and opportunities for improvement.

Consisting of contributions from experts in the field, the book is presented at varying levels of complexity, ranging from elementary to advanced. For the generalist, the text provides a fundamental understanding of the status of AEW concepts with the use of only elementary mathematics. For the specialist, there are separate chapters that emphasize key AEW radar issues, including such topics as:

* Aircraft effects on sidelobe clutter
* Clutter and target models for AEW
* Radar parameter selection
* Clutter, false alarm, and target direction statistics
* Algorithms for multiple target tracking
* Target recognition system development

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