



# Air and Missile Defense Systems Engineering

By Warren J. Boord, John B. Hoffman



**Air and Missile Defense Systems Engineering** By Warren J. Boord, John B. Hoffman

**Air and Missile Defense Systems Engineering** fills a need for those seeking insight into the design procedures of the air and missile defense system engineering process. Specifically aimed at policy planners, engineers, researchers, and consultants, it presents a balanced approach to negating a target in both natural and electronic attack environments, and applies physics-based system engineering to designing and developing a balanced air and missile defense system. The book provides an in-depth description of the missile defense design development process as well as the underlying technical foundation of air and missile defense systems engineering.

Utilizing the authors' many years of combined engineering experience, this book considers new air missile defense system technologies and innovative architectures that can be used to meet performance requirements while also minimizing design, development, and operational costs over the lifecycle of a combat system. It also includes the latest systems design techniques that can be applied to new and existing systems, and introduces systems engineering principles that can be discussed and readily applied to other missile defense system scenarios.

Additionally, this book:

- Focuses on shipborne missile defense systems that provide their own ship defense against missiles and protection of other nearby ships
- Emphasizes the analysis and trade space associated with producing a balanced

air and missile defense system (AMDS)

- Addresses the importance of architectures and technologies
- Traces requirements development through system performance tradeoffs
- Includes results of radar and missile performance tradeoffs in a realistic environment

Air and Missile Defense Systems Engineering provides an understanding of the physics of missile defense systems and the key performance parameters that drive the capabilities of these systems. This book serves as a valuable resource for missile defense engineers and other practicing professionals, as well as a teaching reference for graduate-level courses.

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### Editorial Review

#### Review

"Air and missile defense is one of the toughest missions facing the US armed forces today. ...Our forward deployed forces are in situations now that present combined anti-ship and ballistic missile threat conditions. Serious systems engineering of new systems to counter these threats along with the simultaneous engineering to upgrade... are required to keep pace with the threats. ...This volume addresses the crucial steps needed to achieve the needed outcome to fight and win."

?James S. Polk, CAPT, USN, (Ret.), VP Operations Technology Service Corporation; former AEGIS Technical Director, USA

#### About the Author

**Warren Boord** has 28 years of defense community experience and is currently with the Department of the Navy. **John B. Hoffman** has over 25 years of radar and antenna systems engineering experience and currently works as a consultant.

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