

Systems Engineering and Analysis

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Blanchard, B.S., and W.J. Fabrycky. 2011. *Systems Engineering and Analysis*, 5th ed. Prentice Hall International Series in Industrial and Systems Engineering. Englewood Cliffs, NJ, USA: Prentice Hall.

Usage

This source is considered a primary reference for the following articles:

- Identifying and Understanding Problems and Opportunities
- Life Cycle Characteristics
- System Definition
- System Analysis
- Operation of the System
- System Maintenance
- Logistics
- Configuration Management
- Product and Service Life Management
- Service Life Extension
- Capability Updates, Upgrades, and Modernization
- Disposal and Retirement
- Product Systems Engineering
- Product Systems Engineering Key Aspects
- The Influence of Project Structure and Governance on Systems Engineering and Project Management Relationships

Annotation

This reference covers the major principles and strategies related to the application of traditional systems engineering in the engineering and analysis of human made systems. The book covers strategies for system design, analysis, trade-off studies and operational feasibility which can be tailored to develop specific Products with unique functionalities and capabilities.

This is one of the most respected systems engineering textbooks, especially with regard to the processes for engineering a product system. This book says that exploring a problem is one of the most important steps. It is asking what needs to be improved.

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