

# SEBoK:Books/Part 2

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## Guide to the Systems Engineering Body of Knowledge, Part 2

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### version 2.4

#### Front Matter

- Letter from the Editor
- BKCASE Governance and Editorial Board
- Acknowledgements and Release History
- Cite the SEBoK
- Bkcase Wiki:Copyright

#### Part 2

- Foundations of Systems Engineering
- Foundations of Systems Engineering

#### Knowledge Area

- Systems Fundamentals
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- Introduction to System Fundamentals
- Types of Systems
- Complexity
- Emergence
- Fundamentals for Future Systems Engineering

#### Knowledge Area

- Systems Approach Applied to Engineered Systems
- Systems Approach Applied to Engineered Systems
- Overview of the Systems Approach
- Engineered System Context
- Identifying and Understanding Problems and Opportunities
- Synthesizing Possible Solutions
- Analysis and Selection between Alternative Solutions
- Implementing and Proving a Solution
- Deploying, Using, and Sustaining Systems to Solve Problems

Applying the Systems Approach

**Knowledge Area**

- Systems Science
- Systems Science
- History of Systems Science
- Systems Approaches
- Cycles and the Cyclic Nature of Systems

**Knowledge Area**

- Systems Thinking
- Systems Thinking
- What is Systems Thinking?
- Concepts of Systems Thinking
- Principles of Systems Thinking
- Patterns of Systems Thinking

**Knowledge Area**

- Representing Systems with Models
- Representing Systems with Models
- What is a Model?
- Why Model?
- Types of Models
- System Modeling Concepts
- Integrating Supporting Aspects into System Models
- Modeling Standards

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