



# Systems Engineering Principles and Practice

By Alexander Kossiakoff, William N. Sweet

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This classroom-tested approach is based on a successful course at Johns Hopkins University, originally developed to serve the needs of Westinghouse Co.

- \* Provides an excellent entry-level approach to understanding how to minimize complexity and maximize efficiency in industry and business.
- \* Each chapter will be accompanied by a set of problems to aid understanding.

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### **Editorial Review**

#### **From the Back Cover**

A unique interdisciplinary guide to the engineering of complex systems

Systems Engineering Principles and Practice is designed to help readers learn to think like systems engineers, to integrate user needs, technological opportunities, financial and schedule constraints, and the capabilities and ambitions of the engineering specialists who have to build the system. The book devotes particular attention to knowledge, skills, mindset, and leadership qualities needed to be successful professionals in the field.

This book is an outgrowth of the Johns Hopkins University Master of Science Program in Engineering, developed to meet an urgent and expanding need for skilled systems engineering in industry and government. The authors, who have sixty years of collective experience in this field, were part of the curriculum design team as well as members of the initial faculty. The book is used to support four core courses in the curriculum, and has been exhaustively classroom tested.

#### **Systems Engineering Principles and Practice:**

- \* Provides an excellent, pedagogically sound, entry-level approach to the subject
- \* Defines the breadth and depth of knowledge required by systems engineers
- \* Describes tools and techniques essential for development of complex systems
- \* Includes applied practical problems in every chapter to aid understanding

This very readable book is an excellent resource for engineers, scientists, and project managers involved with systems engineering, as well as a useful textbook for short courses offered through industry seminars.

#### **About the Author**

**ALEXANDER KOSSIAKOFF** is a former director and current Chief Scientist of Johns Hopkins University Applied Physics Laboratory, and Program Chair of the MS program in Systems Engineering and Technical Management at GWC Whiting School of Engineering.

**WILLIAM N. SWEET**, now retired, was Associate Department Head of the Fleet Systems Department at the Johns Hopkins University Applied Physics Laboratory.

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##### **Karla Walker:**

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**Vanessa Gibson:**

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