



Systems Engineering: An Approach to Information-Based Design

By George A. Hazelrigg

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While being an experiment within itself to teach normative design theory, this comprehensive book treats engineering design as a decision-making process, which it is, from a quantitative point of view. This opens a host of well-developed methods to application, including a mathematically rigorous treatment of risk and uncertainty in design. The book is designed to assist the reader by defining the boundaries of a discipline, providing order for the learning process, and assisting the reader in self testing. Provides a number of new methods and aids to engineering design: *Cartoons* for identifying system options; *Scenario Diagrams* for system simulation; an approach to the measurement of information relating to specific decisions; an overall and general approach to engineering design; a rigorous treatment of risk and uncertainty in engineering design, including measures of system value that are valid under risk and uncertainty; and an explanation of the principles of game theory as applied to engineering design.

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Editorial Review

From the Publisher

While being an experiment within itself to teach normative design theory, this comprehensive text treats engineering design as a decision-making process, which it is, from a quantitative point of view. This opens a host of well-developed methods to application, including a mathematically rigorous treatment of risk and uncertainty in design. Largely, these methods come from other fields, such as economics, operations research, decision theory, and game theory. The book is designed to assist the student by defining the boundaries of a discipline, providing order for the learning process, and assisting the student in self testing.

From the Back Cover

Key Benefit: While being an experiment within itself to teach normative design theory, this comprehensive book treats engineering design as a decision-making process, which it is, from a quantitative point of view. This opens a host of well-developed methods to application, including a mathematically rigorous treatment of risk and uncertainty in design. The book is designed to assist the reader by defining the boundaries of a discipline, providing order for the learning process, and assisting the reader in self testing. **Key Topics:** Provides a number of new methods and aids to engineering design: Cartoons for identifying system options; Scenario Diagrams for system simulation; an approach to the measurement of information relating to specific decisions; an overall and general approach to engineering design; a rigorous treatment of risk and uncertainty in engineering design, including measures of system value that are valid under risk and uncertainty; and an explanation of the principles of game theory as applied to engineering design.

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