



Systems Engineering: An Approach to Information-Based Design

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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