



Mechanical System Design

Ramesh Chandra Simant Mishra

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System design is an activity which fulfils human needs. But in order to fulfil the need, a designer or an engineer has to conceive and implement a plan with an innovative approach, utilizing the available physical resources. This textbook presents the concepts of engineering design process in proven steps of needs assessment, problem formulation, system modelling, analysis and implementation. It discusses in detail the concepts of system development, system modelling, system evaluation, system reliability, system simulation and presents the optimization techniques in a practical manner. The approach presented leads the students and practicing engineers to understand and learn the design process and to develop the objective rationale for decision making in order to fulfil their professional role in society.

KEY FEATURES

- Includes chapters on manufacturing systems and concurrent engineering.
- Provides chapter-end questions to enable students to test their comprehension of the topics discussed.
- Incorporates case studies for clear understanding of the concepts discussed.

Primarily intended as a textbook for the undergraduate students of mechanical engineering having courses in Mechanical System Design, the book would also be quite useful for professional engineers and researchers.

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