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Engineering By Design (2nd Edition)



Synopsis

The book introduces readers to a broad range of important design topics. It provides numerous cases that illustrate both successes and failures in engineering design; qualitative presentation of engineering practices are easily understood by readers with little technical knowledge, and analytical techniques are given that allow the development and evaluation of proposed engineering solutions. Coverage includes: an overview of engineering design, needs assessment, structuring the search for the problem, structuring the search for a solution (design goals and specifications), acquiring and applying technical knowledge, abstraction and modeling, synthesis, ethics and product liability issues, and hazards analysis and failure analysis. An excellent handbook for design engineers.

Book Information

Paperback: 640 pages

Publisher: Pearson; 2 edition (December 28, 2003)

Language: English

ISBN-10: 0131409190

ISBN-13: 978-0131409194

Product Dimensions: 7.5 x 1.5 x 9 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

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Best Sellers Rank: #106,565 in Books (See Top 100 in Books) #8 in [Books > Engineering & Transportation > Engineering > Design](#) #125 in [Books > Textbooks > Engineering > Mechanical Engineering](#) #308 in [Books > Engineering & Transportation > Engineering > Mechanical](#)

Customer Reviews

If you are taking an engineering design class or working on an engineering design project then this book is helpful and informative. There are a lot of relevant case studies and design processes outlined that can be useful as you consider the important components of your design. So far my design group has used some of the procedures in the book to help clarify primary design goals and specifications we need to consider as we begin to plan our design. If you are just looking for a fun and interesting read about engineering design, then this probably is not the right book for you though.

I feel sorry for you if this is a required text. You're in for a loooooong booooooring semester.

Not bad, sold it for as much as I paid for it. so much better than the book store prices.

Exactly what my son needed for his class!

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