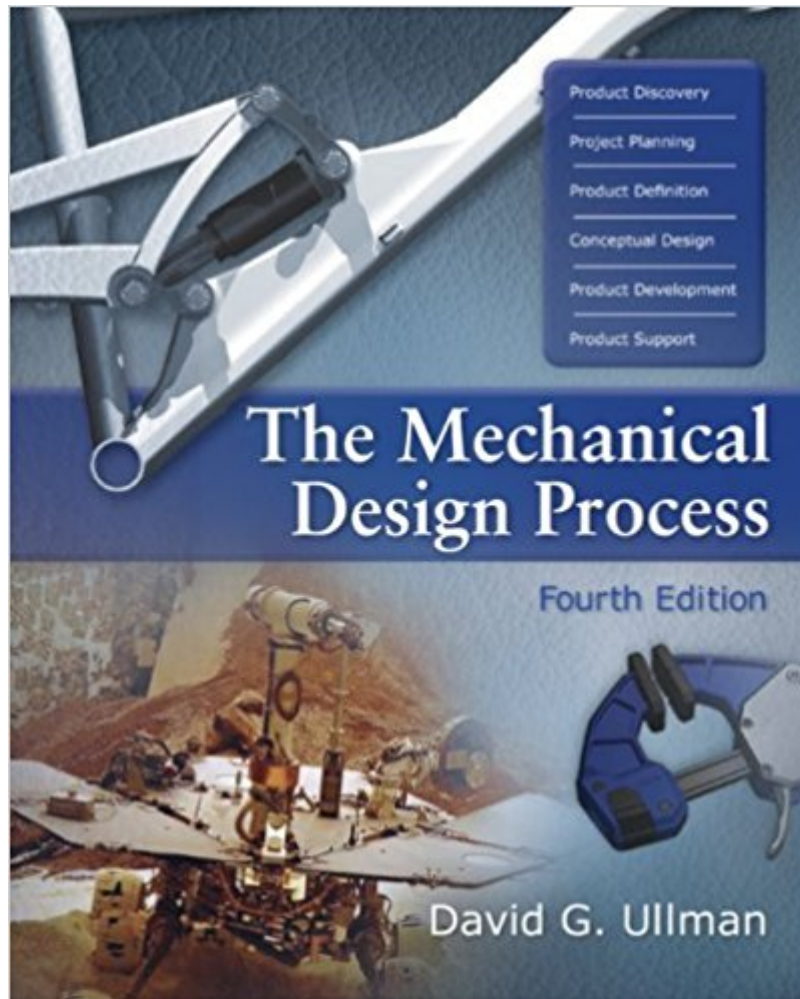


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# The Mechanical Design Process (Mcgraw-Hill Series In Mechanical Engineering)



## Synopsis

The fourth edition of *The Mechanical Design Process* combines a practical overview of the design process with case material and real-life engineering insights. Ullman's work as an innovative designer comes through consistently, and has made this book a favorite with readers. This book conveys the "flavor" of design, addressing both traditional engineering topics as well as real-world issues like creative thinking, synthesis of ideas, visualization, teamwork, sense of customer needs and product success factors, and the financial aspects of design alternatives, in a practical and motivating manner. New in this edition are examples from industry and over twenty online templates that help students prepare complete and consistent assignments while learnign the material. This text is appropriate primarily for the Senior Design course taken by mechanical engineering students, though it can also be used in design courses offered earlier in the curriculum. Working engineers also find it to be a readable, practical overview of the modern design process.

## Book Information

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## Customer Reviews

Ullman provides an easy to understand text on an extremely detailed subject matter. I used it in a sophomore design class to get an overview of the mechanical design process and will use it again for senior capstone design. The text starts off using techniques/tools we're already familiar with and segways into more detailed and specific methods of concept development. The bicycle example does a great job of showing a designer's thought process and is a good inclusion to the book. Also,

it helps that Ullman knows how to get to the point. However, some of the charts are difficult to grasp, and the material on cost and marketing are a bit dull. Although, that's probably due to the subject and not the author.

This text has fast become a favorite at our company; reminding our engineers of some of the key fundamentals of the machine design process. As designers of advanced machine design software technologies, Dr. Ullman's book has inspired the team resulting in valuable brainstorm sessions and innovations. All have found this text to be a great and energizing read. I highly recommend this text and am glad that my son will have the opportunity of using it in his mechanical engineering studies at college.

First of all delivered the book several days in anticipation!!! Excellent. Also, as always, book was properly packed for a long trip - I received it in perfect conditions. Regarding the contents of the book I can say it is a pleasure to find a so clear approach to the challenging mission to conduct mechanical design to a "gran finale". All the points are addressed in a professional and clear way, clearing all doubts that can arise during the Mechanical Design Process.

I'm an electronics engineer and software developer with an interest in ME. This book for me is well beyond Mechanical Design. So far I'm about 3/4 into the read and it is a perfect primer into project management and proper specification. The industry I'm a professional in could learn a lot from the author's tutoring in the thought process of getting things organized and understood prior to engagement in any technical process. I'm so glad to read it and am better off for doing so.

A nice overview of the engineering design process. What is really nice is that the author includes a few examples per chapter--many design texts do not take this extra step. One really good aspect of the text is that the topics flow well for a Capstone Design class. Even QFD is explained in detail without getting too bogged down with the different uses it could have. Though, the author did not explain exactly \*how\* to use QFD in the design process, there was plenty of detail for a good introduction. It would be helpful to have problem assignments, to make the text more like a classroom text. But again, most design texts have difficulty taking this approach. The irony with my review: I was a grad student when Ullman's 1st and 2nd editions were out, and I saw many omissions I would have liked to have filled (particularly on DFM and QFD). Now, as the capstone design professor at a small university, I see how difficult it can be to lay out a textbook on this topic

(because I have tried!). The author did a fine job of it.

The book was very helpful in researching the ins and outs of the design process. Even if this is not required for school, I recommend it to anyone who wants to learn more about design!

This is a great explanation of how the design process SHOULD work. The book is excellent. The new version is expanded and updated and worth checking out if you can afford it.

This book uses excellent approaches to reinforce the design process. Chapter 1 should be review for most people. The book is an engineer's must have. Great book great material.

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