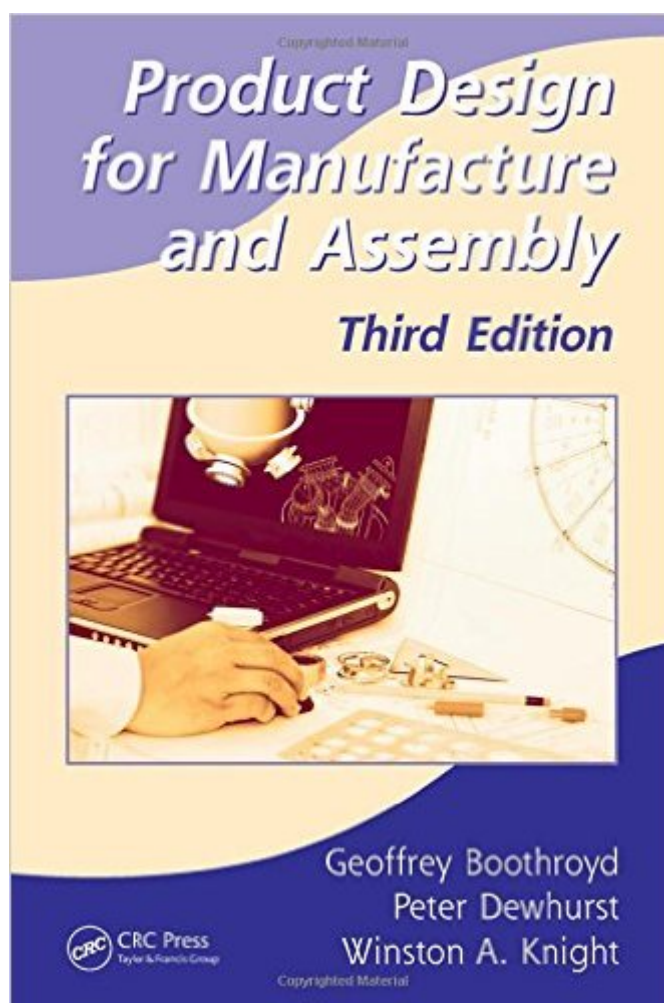


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# Product Design For Manufacture And Assembly, Third Edition (Manufacturing Engineering And Materials Processing)



## Synopsis

Hailed as a groundbreaking and important textbook upon its initial publication, the latest iteration of Product Design for Manufacture and Assembly does not rest on those laurels. In addition to the expected updating of data in all chapters, this third edition has been revised to provide a top-notch textbook for university-level courses in product design and manufacturing design. The authors have added a comprehensive set of problems and student assignments to each chapter, making the new edition substantially more useful. See whatâ™s in the Third Edition: Updated case studies on the application of DFMA techniques Extended versions of the classification schemes of the features of products that influence the difficulty of handling and insertion for manual, high-speed automatic, and robot assembly Discussions of changes in the industry such as increased emphasis on the use of surface mount devices New data on basic manufacturing processes Coverage of powder injection molding Recognized as international experts on the re-engineering of electro-mechanical products, the methods and guidelines developed by Boothroyd, Dewhurst, and Knight have been documented to provide significant savings in the product development process. Often attributed with creating a revolution in product design, the authors have been working in product design manufacture and assembly for more than 25 years. Based on theory yet highly practical, their text defines the factors that influence the ease of assembly and manufacture of products for a wide range of the basic processes used in industry. It demonstrates how to develop competitive products that are simpler in configuration and easier to manufacture with reduced overall costs.

## Book Information

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## Customer Reviews

This book was by far the Worst book I have ever had to use for any of my classes in my Masters program. It was poorly written and even worse, it had an abundance of mathematical errors that made me think the editing was the fault. Each chapter had at least... AT LEAST one mathematical error which in turn completely ruined this whole class for me. It was unfortunate because I truly wanted to learn in this class but when we were forced to use the equations out of the book that would differ from examples in the book, it was unclear on which equation to use. I feel that I studied tremendously for my tests from this book, but I learned the wrong thing. This definitely needs to be rewritten and reviewed at least 100 times before it is released again. What a waste of money.

This book covers a lot of different processes and gives information about estimating their cost in a way that I have never seen anywhere else. That being said, the example problems are riddled with errors. I sent the publisher a 4 page single spaced list, but never heard back. Some errors are trivial and the correct answer can be intuited with engineering judgement. Other are major. For instance, a key table is missing from the powder metallurgy chapter, rendering cost estimation impossible. The authors sell cost estimation software based on their research. Perhaps they don't want anyone to be able to reproduce their results? For a manufacturing cost estimation class, there isn't a better book out there, but that's faint praise as there are really no competitors. It's adequate with careful reading.

I got this book at the recommendation of a professor here on campus. It is loaded with helpful information and details about product design. I have been an design engineer for over 30 years and this book is great!

Like most other said here, this book contains a lot of errors on basic calculations like calculating the surface area of a cylinder! Also, organization of the book is very poor; referenced equations or figures are either very hard to find or nowhere to be found. Otherwise book covers a lot of good topics.

Mediocre at best. This book gets worse when you in a accelerated engineering program.

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