

Synopsis

Containing more than 300 equations and the extensive data necessary to estimate manufacturing and assembly cost during product design, benchmarking, and "should cost" analysis, this textbook gives students modern and effective tools for analyzing injection molding, sheet metalworking, die casting, powder metal processing costs, sand and investment casting, and hot forging. It includes discussions of the influence of the application of design for manufacture and assembly, material selection and economic ranking of processes, the effect of reduced assembly difficulties on product quality, the links between computer-aided design solid models and design analysis tools, and more.

Book Information

Hardcover: 720 pages

Publisher: CRC Press; 2 edition (September 6, 2001)

Language: English

ISBN-10: 082470584X

ISBN-13: 978-0824705848

Product Dimensions: 9.2 x 6.4 x 1.6 inches

Shipping Weight: 2.2 pounds

Average Customer Review: 4.6 out of 5 stars [See all reviews](#) (7 customer reviews)

Best Sellers Rank: #1,289,849 in Books (See Top 100 in Books) #82 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Management](#) #247 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design > Products](#) #528 in [Books > Business & Money > Management & Leadership > Industrial](#)

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Overview Boothroyd and Dewhurst's Second Edition of Product Design for Manufacture and Assembly provides an accessible and reasonably thorough introductory treatment of some of the most common topics in the field of design for manufacture and assembly (DFMA). By introducing the theoretical underpinnings of DFMA in the opening chapter of the book, the authors provide context and support for the importance of the field in modern business, and draw attention to the many ancillary benefits of applying DFMA methodologies in a business environment. Subsequent chapters describe these methodologies, as well as major assembly and manufacturing processes in some detail. The authors also provide basic tools for cost analysis within the context of DFMA. On a whole, the book is a worthwhile read for novices or users of the authors' commercial software, but

the content suffers at times in its dependence on that same software, and in its failure to explain or note omissions which were made in the favor of brevity. Materials and Process Selection The second chapter begins to elaborate in depth on some of the concepts developed in the first chapter by discussing the driving considerations in concurrent materials and fabrication process selection. While the chapter is useful in that it provides tabular references which document the compatibility of different engineering materials and processes, the chapter as a whole suffers from its methodological reliance upon the extensive databases included in commercial software which the authors market.

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