Design For Manufacturing: A Structured Approach
Design for Manufacturing assists anyone not familiar with various manufacturing processes in better visualizing and understanding the relationship between part design and the ease or difficulty of producing the part. Decisions made during the early conceptual stages of design have a great effect on subsequent stages. In fact, quite often more than 70% of the manufacturing cost of a product is determined at this conceptual stage, yet manufacturing is not involved. Through this book, designers will gain insight that will allow them to assess the impact of their proposed design on manufacturing difficulty. The vast majority of components found in commercial batch-manufactured products, such as appliances, computers and office automation equipment are either injection molded, stamped, die cast, or (occasionally) forged. This book emphasizes these particular, most commonly implemented processes. In addition to chapters on these processes, the book touches upon material process selection, general guidelines for determining whether several components should be combined into a single component or not, communications, the physical and mechanical properties of materials, tolerances, and inspection and quality control. In developing the DFM methods presented in this book, he has worked with over 30 firms specializing in injection molding, die-casting, forging and stamping. A set of Power Point slides, containing animations of the various processes, drawings, and photographs of various parts are included. There is also a specially developed website, featuring specific tutorials on each process and its practical applications.

Implements a philosophy which allows for easier and more economic production of designs

Educates designers about manufacturing

Emphasizes the four major manufacturing processes

**Book Information**

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Customer Reviews

This is a really good book for the design community. It defines a total new way of the design approach & and initiates to relook upon the design methodology. Good for researchers and product design students.

I got this book as required reading for a Design for Manufacturing course. The book seems to be clear and straightforward. No real issues.