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An encyclopaedic guide to production techniques and materials for product and industrial designers, engineers, and architects. Today's product designers are presented with a myriad of choices when creating their work and preparing it for manufacture. They have to be knowledgeable about a vast repertoire of processes, ranging from what used to be known as traditional "crafts" to the latest technology, to enable their designs to be manufactured effectively and efficiently. Information on the internet about such processes is often unreliable, and search engines do not usefully organize material for designers. This fundamental new resource explores innovative production techniques and materials



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that are having an impact on the design industry worldwide. Organized into four easily referenced parts—Forming, Cutting, Joining, and Finishing—over seventy manufacturing processes are explained in depth with full technical descriptions; analyses of the typical applications, design opportunities, and considerations each process offers; and information on cost, speed, and environmental impact. The accompanying step-by-step case studies look at a product or component being manufactured at a leading international supplier. A directory of more than fifty materials includes a detailed technical profile, images of typical applications and finishes, and an overview of each material's design characteristics. With some 1,200 color photographs and technical illustrations, specially commissioned for this book, this is the definitive reference for product designers, 3D designers, engineers, and architects who need a convenient, highly accessible, and practical reference.

'Materials and Design' offers an accessible and systematic approach to the selection of materials and the ways in which they can be used. The book is aimed at the industrial designer who may have limited technical support.

Manufacturing and Design presents a fresh view on the world of industrial production: thinking in terms of both abstraction levels and trade-offs. The book invites its readers to distinguish between what is possible in principle for a certain process (as determined by physical law); what is possible in practice (the production method as determined by industrial state-of-the-art); and what is possible for a certain supplier (as determined by its production equipment). Specific processes considered here include metal forging, extrusion, and casting; plastic injection molding and thermoforming; additive manufacturing; joining; recycling; and more. By tackling the field of manufacturing processes from this new angle, this

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book makes the most out of a reader's limited time. It gives the knowledge needed to not only create well-producible designs, but also to understand supplier needs in order to find the optimal compromise. Apart from improving design for production, this publication raises the standards of thinking about producibility. Emphasizes the strong link between product design and choice of manufacturing process Introduces the concept of a "production triangle" to highlight tradeoffs between function, cost, and quality for different manufacturing methods Balanced sets of questions are included to stimulate the reader's thoughts Each chapter ends information on the production methods commonly associated with the principle discussed, as well as pointers for further reading Hints to chapter exercises and an appendix on long exercises with worked solutions available on the book's companion site:

<http://booksite.elsevier.com/9780080999227/>

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

As the Department of Defense continues development of the future warrior system, the difficulty of moving rapidly from design to manufacturing for complex technologies is becoming a major concern. In particular, there are communication gaps between design and manufacturing that hinder rapid development of new products important for these future military developments. To help address those concerns, DOD asked the NRC to develop a framework for "bridging" these gaps through data management, modeling, and simulation. This report presents the results of this study. It provides a

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framework for virtual design and manufacturing and an assessment of the necessary tools; an analysis of the economic dimensions; an examination of barriers to virtual design and manufacturing in the DOD acquisition process; and a series of recommendations and research needs.

Furniture Design is a comprehensive guide and resource for students and furniture designers. As well as discussing pioneering contemporary and historical designs, it also provides substantive answers to designers' questions about function, materials, manufacture and sustainability, integrating guidance on all of these subjects – particularly material and manufacturing properties, in one accessible and structured volume. Many leading contemporary furniture designers from around the world are included, with case studies carefully selected to highlight the importance of both material and manufacture-led design processes. The book is also intended to provide an insight into furniture design for those considering a university education in product and industrial design.

Whether you're a professional industrial designer in need of a ready reference or a student looking to solidify your understanding of basic technical issues, *Industrial Design: Materials and Manufacturing Guide* offers the perspective, coverage, and convenience you need.

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