



# Industrial Design: Materials and Manufacturing Guide

By Jim Lesko

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*Industrial Design: Materials and Manufacturing Guide, Second Edition* provides the detailed coverage of materials and manufacturing processes that industrial designers need without the in-depth and overly technical discussions commonly directed toward engineers. Author Jim Lesko gives you the practical knowledge you need to develop a real-world understanding of materials and processes and make informed choices for industrial design projects.

In this book, you will find everything from basic terminology to valuable insights on why certain shapes work best for particular applications. You'll learn how to extract the best performance from all of the most commonly used methods and materials.

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### Editorial Review

#### Review

*"...a useful reference to established industrial designers...a real boon to students wanting to enhance their understanding of basic technical issues."* (Designer, September)

#### From the Back Cover

A classic guide to the technical aspects of product design—now revised and updated for today's industrial designer

Since 1998, Industrial Design: Materials and Manufacturing Guide has provided the detailed coverage of materials and manufacturing processes that industrial designers need, without the in-depth and overly technical discussions commonly directed toward engineers. Now author Jim Lesko updates this key text to include recent advances in manufacturing processes and new materials that are available, as well as such developments and updates on desktop rapid prototyping and rapid tooling.

In this Second Edition, you'll find everything from basic terminology to valuable insights on why certain shapes work best for particular applications. You'll learn how to extract the best performance from all of the most commonly used methods and materials, and gain the practical knowledge you need to develop a real-world understanding of materials and processes and make informed choices for industrial design projects.

This new edition gives you:

Thorough coverage of forming, cutting, and joining of metals, plastics, ceramics, and glass

Expanded discussions of plastic finishing, metal and plastic composite materials, ferrous and non-ferrous materials

New information on desktop rapid prototyping and rapid tooling

An easy-to-use chart format that lists advantages and disadvantages of each material and manufacturing method

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, Second Edition will help you quickly master fundamentals—so you can sooner start designing successful products.

#### About the Author

Jim Lesko, IDSA, recently retired as Head of Art and Design and Chair of Industrial Design at the University of Bridgeport. He is currently Professor and Director of International Relations at Dongsea University in Busan, South Korea, and Principal of Lesko Design, an industrial design office. He has an MFA in design from Carnegie Mellon University and an MFA in Sculpture from Pratt Institute.

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stage of crucial thinking.

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