



# **Materials and Design, Second Edition: The Art and Science of Material Selection in Product Design**

*Michael F. Ashby, Kara Johnson*

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## **Materials and Design, Second Edition: The Art and Science of Material Selection in Product Design**

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Materials and Design: The Art and Science of Material Selection in Product Design, Second Edition, discusses the role of materials and processes in product design. The book focuses on the materials that designers need, as well as on how and why they use them. The book's 10 chapters cover topics such as function and personality, factors influencing product design, the design process, materials selection, and case studies in materials and design. Appendices for each chapter provide exercises for readers, along with detailed charts of technical attributes of different materials for reference.

This book will be particularly useful to both students and working designers. Students are introduced to the role of materials in manufacturing and design, with the help of familiar language and concepts. Working designers can use the book as a reference source for materials and manufacturing.

\* The best guide ever published on the on the role of materials, past and present, in product development, by noted materials authority Mike Ashby and professional designer Kara Johnson--now with even better photos and drawings on the Design Process

\* Significant new section on the use of re-cycled materials in products, and the importance of sustainable design for manufactured goods and services

\* Enhanced materials profiles, with addition of new materials types like nanomaterials, advanced plastics and bio-based materials

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