



## **Braided Structures and Composites: Production, Properties, Mechanics, and Technical Applications (Composite Materials)**

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# Braided Structures and Composites: Production, Properties, Mechanics, and Technical Applications (Composite Materials)

## Braided Structures and Composites: Production, Properties, Mechanics, and Technical Applications (Composite Materials)

Braiding is a very old textile manufacturing technology that traditionally has been used to produce items like ropes, shoe laces, and cables. Recently, braiding has gained attention in the medical, aerospace, transportation, and civil engineering communities, among others, due to its ability to produce structures that can fulfill the explicit demands imposed by these technical sectors.

**Braided Structures and Composites: Production, Properties, Mechanics, and Technical Applications** provides a single source of cutting-edge information on braiding and its applications. Featuring chapters authored by leading experts in their respective fields, this first-of-its-kind book:

- Explains the basic principles of braiding technology for industrial textiles, composites, and products
- Identifies the key parameters that influence the braiding process and its produced structures
- Shows how to control these parameters to achieve the desired material characteristics
- Discusses braided structure modeling and analysis techniques and software tools
- Describes various application requirements and their design solutions

**Braided Structures and Composites: Production, Properties, Mechanics, and Technical Applications** supplies a critical understanding of braiding from concept to product design and application. This book is vital to the development of multifunctional products with highly specific features using braiding technology.

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