



## Soft Computing in the Design and Manufacturing of Composite Materials: Applications to Brake Friction and Thermoset Matrix Composites (Hardback)

By Dragan Aleksendric, Pierpaolo Carlone

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2015. Hardback. Book Condition: New. 234 x 158 mm. Language: English . Brand New Book. Due to problems associated with the design and manufacturing of composite materials, there is a need to introduce computational and intelligent systems engineering methodology in materials engineering. Soft Computing in the Design and Manufacturing of Composite Material offers an intelligent approach to advance material engineering, and significantly improves the process of designing and manufacturing a new material. This title includes chapters covering topics such as soft computing techniques, composite materials engineering, design and manufacturing of composite materials, numerical modeling, prediction, and optimization of the composite materials performance, development of the hybrid models, and control of the composite material performance. \* Introduction of soft computing in the composite materials engineering\* Includes accurate and detailed analysis of the current state of the art in the field\* Development of the intelligent models for design and manufacturing of composite material\* Details composite material performance prediction\* Optimization of the manufacturing process of composite materials.



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