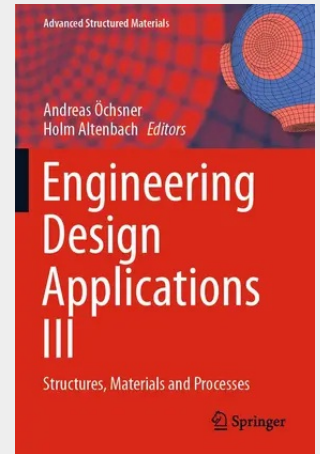


Engineering Design Applications III

Structures, Materials and Processes

This book provides an update on recent advances in various areas of modern engineering design, such as mechanical, materials, computer, and process engineering, which provide the foundation for the development of improved structures, materials, and processes. The modern design cycle is characterized by the interaction of different disciplines and a strong shift toward computer-based approaches involving only a small number of experiments for verification purposes. A major driver for this development is the increased demand for cost reduction, which is also connected to environmental demands. In the transportation industry (e.g. automotive or aerospace), where there is a demand for greater fuel efficiency, one solution is lighter structures and/or improved processes for energy conversion. Another emerging area is the interaction of classical engineering with the health and medical sector.

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