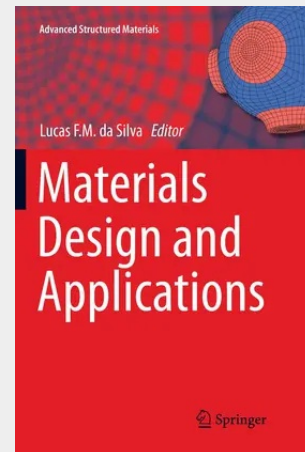


Materials Design and Applications

This volume features fundamental research and applications in the field of the design and application of engineering materials, predominantly within the context of mechanical engineering applications. This includes a wide range of materials engineering and technology, including metals, e.g., polymers, composites, and ceramics. Advanced applications would include manufacturing in the new or newer materials, testing methods, multi-scale experimental and computational aspects. This book features fundamental research and applications in the design of engineering materials, predominantly within the context of mechanical engineering applications such as automobile, railway, marine, aerospace, biomedical, pressure vessel technology, and turbine technology. It covers a wide range of materials, including metals, polymers, composites, and ceramics. Advanced applications include the manufacturing of new materials, testing methods, multi-scale experimental and computational aspects. p>

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