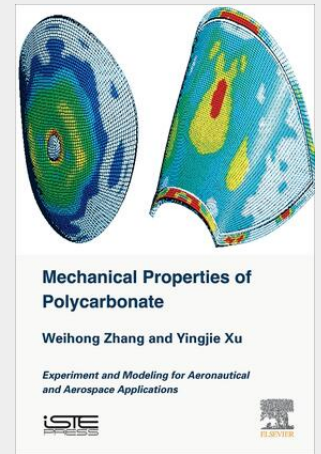


Mechanical Properties of Polycarbonate

Mechanical Properties of Polycarbonate: Experiment and Modeling for Aeronautical and Aerospace Applications provides a detailed description on experimental characterization, material modeling and finite element simulation method for polycarbonate in aeronautical and aerospace applications. The book presents the experiment facilities and methods used in characterizing the mechanical properties of polycarbonate in a large range of strain rates and temperatures. The constitutive modeling of polycarbonate and the finite element simulation of polycarbonate products under impact loading are illustrated in detail. Finally, an optimization methodology is devised to optimize the injection molding process parameters for high mechanical performance of the product under impact loading.



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