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Special Section: 3D Printing

Design and fabrication of periodic latticebased cellular structures

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both yield and local buckling criteria. The 3D model for the optimized lattice structure is built and non-linear finite element study is conducted to predict the performance. Physical parts are 3D printed and tested to compare with the simulations. Material properties for the 3D printed parts are determined for the finite element study using reverse engineering of actual measured data.

GRAPHICAL ABSTRACT



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