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Self-supporting rhombic infill structures for additive manufacturing

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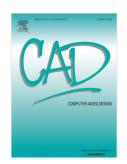
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#### **ACCEPTED MANUSCRIPT**

\*Highlights (for review)

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- Rhombic infill structures ensure the manufacturability of the shape interior
- Adaptively subdividing the rhombic grid can improve the objective function
- The method is exemplified by improving mechanical stiffness and static stability

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