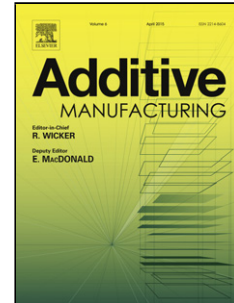


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Additive manufacturing-driven mold design for castings

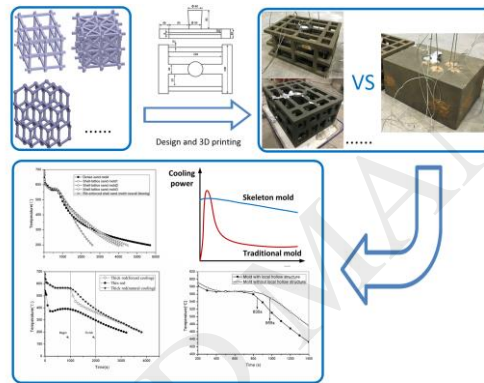
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Graphic Abstract



Highlights

- A skeleton sand mold which includes lattice-shell type, rib enforced type and air pockets structure was presented.
- These sand molds can save mold sand and control the time of casting.
- These sand molds make it possible to adjust the cooling and solidification conditions of castings.
- These sand molds can improve production efficiency, and reduce deformation, residual stress and defects of castings.

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