

## Accepted Manuscript

High-order 2D mesh curving methods with a piecewise linear target and application to Helmholtz problems

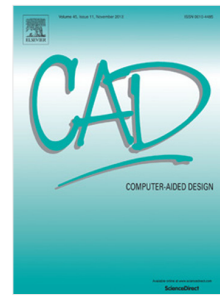
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**Highlights**

- The effect of geometric inaccuracy on numerical error is assessed for Helmholtz scattering problems
- The importance of high order boundary representation for Helmholtz simulations is shown
- Nodal and modal curving methods are compared for linear target meshes
- Modally curved meshes look advantageous for Helmholtz scattering simulations

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