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Using virtual topology operations to generate analysis topology

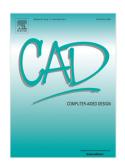
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Using virtual topology operations to generate analysis topology

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Highlights

- virtual topology technology is extended to allow the virtual partitioning of volume cells
- topological consistency maintained to simplify decomposition using boundary traversals
- analysis topology generated and interrogated to assign meshing schemes to virtual cells
- virtual topology managed alongside original geometry enabling different packages to be utilised for generating and meshing the analysis topology

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