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TIME-DEPENDENT GRID ADAPTATION FOR MESHES OF TRIANGLES AND TETRAHEDRA

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SUMMARY

- Final solution adapted mesh depends on the original mesh
 - adapted mesh cannot be coarser than the original mesh
- Enrichment/Coarsening procedures are robust for isotropic cells; however, enrichment of high aspect ratio cells may fail near boundary surfaces with relatively large curvature
- Enrichment indicator worked well for the cases shown, but in general requires user supervision for a more efficient solution