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**TRUNCATION ERROR FOR FINITE VOLUME
APPROXIMATIONS ON UNSTRUCTURED GRIDS**

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This presentation will examine the effect of grid properties on the truncation error in finite volume approximations on unstructured grids. Such properties as nonuniformity in grid point spacing and grid quality can reduce the formal order of approximation. The study includes both two and three-dimensional grids and applies to tetrahedral, prismatic, and hexahedral cells. These results should further motivate the need for examining grid quality in all computational simulations.

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