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Geometrical nonlinear analysis based on optimization technique

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### Highlights

- Two triangular shapes are used to formulate the iteration procedure required for nonlinear analysis.
- The areas of these shapes are considered as two variables objective functions.
- These functions are minimized with respect to each variable.
- Two new constraint equations are obtained, which can be utilized for the nonlinear solver.
- All of numerical experiences clearly demonstrate the merits of the authors' formulations.

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