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A multi-physics methodology for the simulation of reactive flow and elastoplastic structural response

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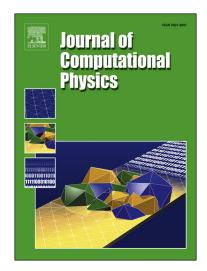
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Highlights

- New finite volume num. methodolody for simultaneous solution of 4 PDE systems.
- Simultaneous simulation of inert, reactive and elastoplastic phenomena.
- New mixed Riemann solvers for each pair of the 4 systems of equations.
- Validation of each system separately and coupling validation.
- Automotive (car crash) and defense (explosive reactive armor) example applications.

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