

Accepted Manuscript

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

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PII: S0021-9991(18)30197-9
DOI: <https://doi.org/10.1016/j.jcp.2018.03.037>
Reference: YJCPH 7929

To appear in: *Journal of Computational Physics*

Received date: 20 October 2017
Revised date: 19 March 2018
Accepted date: 25 March 2018

Please cite this article in press as: L. Michael, N. Nikiforakis, A multi-physics methodology for the simulation of reactive flow and elastoplastic structural response, *J. Comput. Phys.* (2018), <https://doi.org/10.1016/j.jcp.2018.03.037>

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Highlights

- New finite volume num. methodology 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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