

Fracture Benchmark

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ABSTRACT

The session is dedicated to benchmarks for fracture simulation models. All regular participants may participate to the benchmark session. For CFRAC2019, three benchmark problems are proposed:

1. Mixed mode crack propagation in concrete [1]
2. Mixed mode crack propagation in PMMA [2]
3. Mixed mode fatigue crack propagation in 316L stainless steel [3]

All the data for reproducing the experiments have been uploaded on the Zenodo platform. Participants may choose one or several data set among the three proposed. It is not required to send results before the conference. Interested participants are just asked to tick the “Fracture Benchmark” box when submitting their abstract.

REFERENCES

- [1] Poncelet M.. (2018). Data for mixed mode fracture test 1 (CARPIUC Benchmark). Zenodo. <http://doi.org/10.5281/zenodo.1477016>
- [2] Réthoré J.. (2018). PMMA Mixed mode fracture. Zenodo. <http://doi.org/10.5281/zenodo.1473126>
- [3] Langlois R., Coret M. and Réthoré J.. (2018). Fatigue Crack Propagation Benchmark, GDR 3651 FATACRACK. Zenodo. <http://doi.org/10.5281/zenodo.2329057>