

Efficient multigrid FE solver

This result was calculated by an efficient multigrid FEM solver with an accuracy control strategy using automatic local grid refinement. Cheap accuracy estimators are used.

A particular implementation care has been devoted to ensure both a linear time complexity of every intermediate step and a minimal memory requirement.

Reference:

An efficient linear elastic FEM solver using automatic local grid refinement and accuracy control
Biboulet N., Gravouil A., Dureisseix D., Lubrecht A.A., Combescure A.
Finite Elements in Analysis and Design, vol 68, 2013, p 28-38.