Getdp A General Finite Element Solver For The De Rham Complex

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Getdp A General Finite Element
GetDP is a free finite element solver using mixed elements to discretize de Rham-type complexes in one, two and three dimensions. The main feature of GetDP is the closeness between the input data defining discrete problems (written by the user in ASCII data files) and the symbolic mathematical expressions of these problems.

GetDP: a General Environment for the Treatment of Discrete ...
ONELAB is an open-source, lightweight interface to finite element software. It is completely free: the default ONELAB software bundle contains the mesh generator Gmsh, the finite element solver GetDP and the optimization library conveks.Many other codes (free or not) can be easily interfaced as well.

ONELAB: Open Numerical Engineering LABoratory
Gmsh is an open source 3D finite element mesh generator with a built-in CAD engine and post-processor. Its design goal is to provide a fast, light and user-friendly meshing tool with parametric input and advanced visualization capabilities. Gmsh is built around four modules: geometry, mesh, solver and post-processing.

Gmsh: a three-dimensional finite element mesh generator ...
Models based on GetDP as a finite element solver and Gmsh as a mesh generator. The models include an E-J power law for superconductors and an anhysteretic law for ferromagnetic materials. The finite element method is implemented either with an A- or an H-formulation, for tapes, cylinders, and cubes. One model includes a coupled A-H formulation.

Shared Models - HTS MODELING WORKGROUP: Welcome!
A full-featured solver interfaced in this manner is GetDP (https://getdp.info), a general finite elements solver using mixed finite elements. Using the Gmsh API, Gmsh can also be embedded directly in your own solver, and ONELAB parameters can be used to interactively drive it.

Gmsh 4.9.3
El método de los elementos finitos (MEF en castellano o FEM en inglés) es un método numérico general para la aproximación de soluciones de ecuaciones diferenciales parciales muy complejas utilizado en diversos problemas de ingeniería y física.. El MEF está pensado para ser usado en computadoras y permite resolver ecuaciones diferenciales asociadas a un problema físico o ingenieril ...

Método de los elementos finitos - Wikipedia, la ...
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