

## 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 ...

Abstract GetDP is a high-level finite element solver using mixed elements to discretize de Rham-type complexes in one, two and three dimensions.

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GetDP: a General Finite-Element Solver for the de Rham Complex C. Geuzaine, Universit e de Li ege July 18, 2007 Joint work with P. Dular 1. History Started at the end of 1996 First feature-complete public release (binary-only): mid-1998 Open-sourced under GNU GPL in 2004 Design: Small, fast, no GUI

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DESCRIPTION GetDP is a general 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.

### Ubuntu Manpage: GetDP - a General environment for the ...

GetDP is a high-level finite element solver using mixed elements to discretize de Rham-type complexes in one, two and three dimensions. This paper presents an overview of the structure of GetDP, highlighting the closeness between the organization of data defining a discrete problem and its symbolic mathematical description. 1 Introduction

### GetDP: a general finite-element solver for the de Rham complex

GetDP (a "General environment for the treatment of Discrete Problems") is a scientific software environment for the numerical solution of integro-differential equations, open to the coupling of physical problems (electromagnetic, thermal, etc.) as well as of numerical methods (finite element method, integral methods, etc.).

# Online Library Getdp A General Finite Element Solver For The De Rham Complex

## **GetDP**

An Open Framework for Testing Optimized Schwarz Methods for Time-Harmonic Wave Problems. GetDDM 1 combines GetDP and Gmsh to solve large scale finite element problems using optimized Schwarz domain decomposition methods. Examples for time-harmonic acoustic and electromagnetic wave problems implement several families of transmission conditions: zeroth- and second-order optimized conditions 2-7, Padé-localized square-root conditions 8-9 and PML conditions 10.

## **GetDDM - ONELAB**

Open Numerical Engineering LABORatory 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 con v eks. Many other codes (free or not) can be easily interfaced as well.

## **ONELAB: Open Numerical Engineering LABORatory**

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## **Ubuntu Manpage: GetDP - a General environment for the ...**

General form of the finite element method. In general, the finite element method is characterized by the following process. One chooses a grid for  $\Omega$ . In the preceding treatment, the grid consisted of triangles, but one can also use squares or curvilinear polygons. Then, one chooses basis functions.

## **Finite element method - Wikipedia**

GetDP is a general finite element solver using mixed elements to discretize de Rham-type complexes in one, two, and three dimensions.

## **Release (#69782) - GetDP - OSDN**

An Open Source general finite element solver for Linux that uses mixed elements. GetDP is an open source and totally free command-line software project that provides a general environment for the...

## **Download GetDP Linux 2.5.0**

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