

OPEN SOURCE DISCONTINUOUS SYSTEMS WORKBENCH FOR SCIENCE AND ENGINEERING

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Abstract: In 1989 Munjiza proposed merging finite and discrete elements. During 1990 he developed algorithmic solutions for the new method, together with a C based implementation known as Y code. In 2004 these were published as a textbook comprising algorithms with 2D and 3D source codes. Joint QMUL-Imperial College EPSRC research project is underway to make Y codes available in Open Source format for geoscience problems. The result is an open source Virtual Geoscience Workbench (VGW), key components of which are summarised in this paper.

Keywords: combined finite-discrete element, workbench, geoscience.



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