Program Name : BEPO2D

(BEPO2D.tex)

Developer:

J. T. Chen and H. K. Hong

Source for program information :

J. T. Chen and H. K. Hong,
Department of Civil Engineering,
National Taiwan University,
Taipei, Taiwan,
R.O.C.

First release:

1986

Last update:

1992

Program category:

Program origin : University
Status : Two dimensional, special purpose including singularity

Program capabilities:

Steady state seepage analysis with or without singularity

Short program description:

The program is based on the dual integral formulations and the dual boundary element method(DBEM) is implemented. The unified theory of DBEM can solve the general boundary value problems with or without degenerate boundary, e.g., cutoff wall in potential flow. Program output includes boudary and interior potential, potential gradient of boundary and interior points. This package is the training program of the boundary element method course of National Taiwan University.

Element library available:

Constant elements only.

Material library available:

Homogeneous medium

Type of loading permitted:

Either the potential or its derivative normal to the boundary can be specified.

Pre/postprocess:

SDRC-IDEAS

Program language:

FORTRAN

Program size:

1000 lines

Hardware:

VAX, CRAY, PC

Program avail. and support:

Listing of program can be obtained for a nominal fee. For conditions contact program developer.

Documentation:

Textbook(as theoretical manual and users' manual), program listing and published papers.