Line-up of FLIP Programs (English version)

For flip rose ver.7.4 and ver.8.0 series For flip rose ver.7.2 series or earlier version FLIP ROSE FLIP ROSE FLIP ROSE FI TP Consortium ver.7 Series ver.7 Series Her Member & Academic Subscription Subscription Version Overseas Member Discount Version Program Description Category Version [Number of computers] computers] Stand-alone computers] Stand-alone computers] Stand-alone connected through LAN (FLIP ROSE Ver. 8.0 Series have the functions of FLIP ROSE Ver. 7.4 Series vith the following addition and modification.) Cookie model element (cohesive soil behavior has been idealized) 2Change DBSW command Allow use of pore water element (drained) in conjunction with cookie mode flip rose 8.0 series lement (Allow to consider void ratio dependency of coefficient of permeability) Modify the specification in FLIP ROSE ver.8.0.0 that cohesion c was roportional to pn0 (initial value on normal consolidation curve) in cookie \bigcirc **Main Program** Latest version: ver.8.1.0 model element in consolidation settlement analysis under the conditions of imultaneous specification of overconsolidation and cohesion Ca>0. SAllow pile-soil interaction spring element applicable to cookie model element ©Debugging output setting of linear plane element ①Change the name "qus" in cocktail glass model eleme ookie model element to "Sus" and "Susa", respectively. 8Fix a bug in cookie model element and introduce a new input parameter (FLIP ROSE Ver.7.4 Series have the functions of FLIP ROSE Ver.7.2 Series with the following addition and modification.) DIncorporate the function to represent pile skin friction to pile-soil interaction spring element Introduce Hirayama's pile end bearing capacity model as a nonlinear spring lement $\ensuremath{\mathfrak{I}}$ mprove the axial force dependency of trilinear M- ϕ relationship in onlinear beam element (IEL=16) flip rose 7.4 series 4)Add components of output elements and modify formats of output data (added in ver.7.3.1) Add plane stress element as one of linear plane elements (added in Latest version: ver.7.4.6 /er.7.4.0) Introduce the bilinear model corresponding to the Revised Technical Standards and Commentaries for Port and Harbour Facilities (2018) (IHT=2 Main Program and IAX=5) (added in ver.7.4.0) 8Allow to output pore water element - soil element correspondence table to he file (#07) Fix the bug in Hirayama Model of pile-soil interaction spring model (IHN=-4) and the bug in Rayleigh damping matrix of pile skin friction simulating Bug-fix is applied on the fact that flow velocity vector file (#40) erroneously 1 ncludes response data of elements other than pore water ele when FLOW command for output flow velocity vector is executed @Fix the bug in FLOW command from STAT command ②Fix the bug in INIT command in partially drained analysis R @Update the error treatment when the rounding error occurs in the routine O or cocktail glass model element Modify the file open function as measures for Intel compiler update Е Program for determination of liquefaction parameters (multi-spring flipsim 5.1 series 🖈 0 0 0 Pre-Processor nodel element) (with drawing figure function) (for FLIP ROSE ver.7.3 (Latest version:ver.5.1.1) Program implemented with the advanced function specialized for use in flipgen 5.4 series FLIP analysis which are different from commercially available mesh Pre-Processor (Latest version: ver.5.4.3 generators (with basic function used for mesh generation of standard analysis model) (for FLIP ROSE ver.7.4 or later) Program for determination of liquefaction parameters (cocktail glass flipcsim 5.2 series * nodel element) (with simplified setup function of parameters and Pre-Processor (Latest version: ver.5.2.0) drawing figure function) (for FLIP ROSE ver. 7.3 or later) File format conversion program for drawing figures of time histories, fileconv10 * 0 stress paths, stress-strain relations by Excel (for FLIP ROSE Ver.7.3 or File format conversion program for 2D animation (MicroAVS) (for FLIP flip2dtomavs201 🖈 0 Post-Processor ROSE Ver.7.3 or later) ile format conversion program for 2D animation (MicroAVS) for eigen flip2dtomavs201_eign 🜟 0 \bigcirc Post-Processor node (for FLIP ROSE Ver.7.3 or later) Time series data extraction program for drawing figures of time fliphist30 🖈 \bigcirc nistories, stress paths and stress-strain relations (for FLIP ROSE Post-Processor Spatial distribution data extraction program for drawing figures of flipsect30 * \bigcirc deformation and excess pore water pressure distribution (for FLIP Post-Processor ROSE Ver.7.3 or later) flip rose 7.2 series Undrained/partially drainage analysis (settlement due to dissipation of ore water pressure) Main Program (Latest version: ver.7.2.3 7) Incorporated asymmetric modified Takeda model element to nonlinear eam element, etc. Program for determination of liquefaction parameters (multi-spring flipsim 4.0 series 🜟 \bigcirc model element) (with drawing figure function) (for FLIP ROSE ver.7.2 Pre-Processor (Latest version: ver.4.0.1)

(As of April 2025)

Line-up of FLIP Programs (English version)

For flip rose ver.7.4 and ver.8.0 series For flip rose ver.7.2 series (As of April 2025) FLIP ROSE FLIP ROSE FLIP ROSE ver.7 series ver.7 Series FLIP Consortium Academic Subscription Subscription User Member & Version Discount Version Overseas Member Program Description Category Version [Number of computers] Maximum of ten computers connected through LAN computers] Stand-alone computers] Stand-alone computers] Stand-alone Program implemented with the advanced function specialized for use in flipgen 5.0 series FLIP analysis which are different from commercially available mesh \bigcirc Pre-Processor generators (with basic function used for mesh generation of standard (Latest version: ver.5.0.5) nalysis model) (for FLIP ROSE ver.7.2 series) rogram for determination of liquefaction parameters (cocktail glass flincsim 4.0 series * nodel element) (with drawing figure function) (for FLIP ROSE ver.7.2 \bigcirc Pre-Processor (Latest version: ver.4.0.2) File format conversion program for drawing figures of time histories, fileconv6 * stress paths, stress-strain relations by Excel (for FLIP ROSE ver.7.2 Post-Processor File format conversion program for 2D animation (MicroAVS) (for FLIP flip2dtomavs17 🖈 0 0 Post-Processor ROSF ver.7.2 series) Time series data extraction program for drawing figures of time 0 fliphist23 ★ histories, stress paths and stress-strain relations (FLIP ROSE ver.7.2 Post-Processor eries) Spatial distribution data extraction program for drawing figures of 0 flipsect25 ★ 0 Post-Processor deformation and excess pore water pressure distribution (for FLIP patial distribution data selection program for drawing figures of pickupdata6 🖈 🖈 0 bending moment distribution (section force) of structure members, Post-Processor D ool for format conversion among the files of wave data waveconv33 🜟 🖈 0 0 *available in FLIP ROSE ver.7.4 or later in case of file conversion Post-Processor For FLIP ROSE ver.7.4.2 or later flowplot * ool for drawing flow velocity vectors from structural file (#30) and \bigcirc \bigcirc Post-Processor ool for converting spatial distribution data of displacement, acceleration, strain, stress, excess pore water pressure, dynamic water VtkConv111 2D 🛨 🛨 \bigcirc ressure and flow velocity vector (including eigen mode) output by Post-Processor (Latest version: ver.1.1.1) FLIP ROSE 2D to the data for drawing figure by ParaView (applicable to he data of FLIP TULIP) flip rose 3d 2.0 series 3D dynamic effective stress analysis program (Latest version cocktail glass model element and seepage analysis functions \bigcirc Main Program Members: ver.2.0.1 Subscription: ver.2.0.0 Input data generator for FLIP ROSE 3D with limited function flinmesh20 0 \bigcirc Pre-Processor (Latest version: ver.2.0) (Supported version for AutoCAD data) flip3dtomavs20 ile format conversion program from data output FLIP to 3D animation Post-Processor 0 flip3dtomavs17 eign File format conversion program for 3D animation for eigen mode Post-Processor File format conversion program for 3D animation for fluid freedom o Post-Processor flip3dtomavs17_eign_fluid 0 eigen vector ime series data extraction program for drawing figures of time 0 0 flip3dhist21 Post-Processor nistories, stress paths and stress-strain relations for FLIP ROSE 3D Spatial distribution data extraction program for drawing figures of D flip3dsect21 deformation and excess pore water pressure distribution for FLIP ROSE \bigcirc Post-Processor VtkConv111 3D \bigcirc (FLIP ROSE 3D version of VtkConv 2D) Post-Processor (Latest version: ver.1.1.1) 2D dynamic effective stress analysis program based on the Total and flip tulip 6.6 series Main Program Updated Lagrangian methods (for Windows 64 bit) (Latest version: ver.6.6.1) Time series data extraction program for drawing figures of time tuliphist10 \bigcirc Post-Processor histories, stress paths and stress-strain relations for FLIP TULIP Spatial distribution data extraction program for drawing figures of tulipsect10 Post-Processor deformation and excess pore water pressure distribution for FLIP TULIP

System requirements:

The executable modules of FLIP main programs and pre-/post- processors are compiled by Intel Visual Fortran to run on 64 bit Windows® 8 or later with Intel CoreI series 2nd generation or later.

Bugs

FLIP Consortium will provide the bug fix release to FLIP Consortium User Members and Overseas Members and FLIP ROSE Ver.7 series Support Service Members as soon as the bug has been fixed. If a serious bug is found in a program, FLIP Consortium will arrange so that the bug fix release can be obtained by all the customers who have purchased FLIP ROSE Ver. 7 Series, including those who are not Support Service Members.