

The update history of VisualFEA can be viewed by the following procedure.

- 1) Run VisualFEA
- 2) Select "Update History" item from "Help" menu
- 3) Check the updated items from "Update History" dialog.

Use the horizontal or vertical scroll bar if necessary.

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VisualFEA  Update History
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No.	Version	Date(Y.M.D)	Update Contents
124	5.14	2022. 6.28.	Cross clipping plane function
123	5.14	2022. 6. 2.	Improvement of functions creating fillets (line-line, line-circular arc, circular arc- circular arc
122	5.13	2022. 5.16.	Improvement of functions defining and assigning bounday conditions.
121	5.13	2022. 2.14.	Moification of "Grid System" function.
120	5.13	2022. 1. 9.	Moification of "DXF importing" function.
119	5.13	2021. 9. 6.	Moification of "Terrain Adjustment" dialog.
118	5.13	2021. 7.26.	New function of exposing the volume elements inside of 3D solid meshes using a clipping plane.
117	5.13	2021. 5.30.	Additional new option of advancing front algorithm for triangular mesh generation.
116	5.13	2020. 6.20.	Automatic turning on/off grid.
115	5.12	2020. 2.10.	Excel output function.
114	5.12	2019. 1.28.	A new item, "Surface Selection Aid", is added to facilitate selections of surface meshes for Auto Mesh (Volume).
113	5.12	2018. 5. 1.	New function of cutting plane view. (Realtime rendering of cutting plane view of contour image)
112	5.12	2017. 4. 1.	OpenGL option is added for image rendering.
111	5.11	2016.10. 7.	New type of spring element, "Coupled Spring", is coupled with a compression or tension spring in perpendicular direction.
110	5.11	2016. 5. 9.	Automatic extension of grid planes
109	5.11	2016. 3. 4.	Improvement of shape funtion display

108	5.11	2015. 5. 8.	Improvement of time requirement for large mesh generation: mapping, extrusion, sweeping types
107	5.11	2015. 4.18.	Addition of "Continuous line" rendering option for vector display
106	5.11	2015. 4. 1.	Improvement of vector drawing option
105	5.11	2015. 3.29.	Addition of "Nodal mass (directional)" to the dynamic motion type
104	5.11	2015. 3.19.	Info tip for stress image of frame section
103	5.11	2015. 3.17.	Application of body force (acceleration) to nodes assigned with nodal mass.(Dynamic analysis only)
102	5.11	2015. 3.16.	Modification of dynamic motion data
101	5.11	2014.11.15.	New function of displaying frame diagrams on a separate frame diagram window
100	5.11	2014.10.25.	Improvement of elasto-plastic analysis of frame members using internal plastic hinges between nodal points
99	5.11	2014. 9. 5.	"Anti-aliasing" option for improved rendering of frame shading and contouring
98	5.11	2014. 8.29.	Representation of plastic hinges for frame models with elasto-plastic analysis
97	5.11	2014. 8.22.	Improvement of setting the diagram display options, and addition of the help items describing the options
96	5.10	2014. 8. 6.	Improvement of transparency shading
95	5.10	2014. 7.24.	Revision related to elasto-plastic analysis and geometric nonlinear analysis of frames
94	5.10	2014. 7.10.	Expansion of the image scaling range from (1/32 - 32) to (1/512 - 512)
93	5.10	2014. 7. 8.	Zoom in/out using the mouse wheel
92	5.10	2014. 6.18.	Capability of importing DXF data with 3DFACE, 3DSOLID and polyface mesh
91	5.10	2014. 5.02.	Improvement of importing external data with compatibility to DXF 12/14
90	5.10	2014. 4.14.	Revision of mesh carving and mesh operation process based on Delaunay algorithm
89	5.10	2014. 3.30.	Addition of a new option for 3D auto tetrahedronization: Delaunay algorithm
88	5.10	2014. 1. 6.	More rendering options in preference setting: normal vector interpolation, etc.
87	5.10	2013. 7.21.	Shadow casting over contour images
86	5.10	2013. 6.18.	Solid carving by surface primitives. Previously,solid carving was possible only by surface meshes
85	5.10	2013. 5.23.	Preference setting for the number of internal iterations to reduce residuals. Preference -> Solver
84	5.10	2013. 5.17.	Addition of new load type. Linearly distributed load on a part of a frame element
83	5.10	2013. 5. 9.	Inclusion of uniform load type for moving loads
82	5.09	2013. 4.20.	Addition of new load type. Uniform distributed load on a part of a frame element
81	5.09	2013. 2. 8.	Consistent scale for contouring of frame member forces and stresses
80	5.09	2012.12.20.	Overall modification of the CBT functions (especially related to shape function)
79	5.08	2012. 7. 8.	Addition of Hyperelastic model

78	5.08	2012. 7. 6.	Addition of Duncan-Chang nonlinear elastic model
77	5.08	2012. 6.15.	Redering of the yield surface and mohr's circle for points on a cutting plane
76	5.08	2012. 6.1.	Tracing of bending moment and shear force diagrams for moving loads
75	5.08	2012. 5.15.	Realtime update of the stress contours while rotating the stress square coupled with a Mohr's circle diagram.
74	5.08	2012. 5.14.	New options of selecting surface meshes surrounding volume meshes. "Outer surface only", "Intra surface only"
73	5.08	2012. 5.11.	New functions for object listview. Reservation of objects for future selection. Saving the list file with reserved object number.
72	5.08	2012. 5. 5.	Methods of enforcing nodal constraints. "Edit"->"Preference",->"Solver". Static condensation and penalty function.
71	5.08	2012. 4.19.	New function of displaying the min. and max. values. "Postpro"->"Nodal Value"->"Mark Min. Max. Node" menu item
70	5.07	2012. 4. 7.	Modification of "Assign" menu items
69	5.07	2012. 4. 4.	Addition of "Show Graph" item for dynamic motions
68	5.07	2012. 3.30.	Addition of "File" -> "Open Recent" menu item
67	5.07	2012. 3.27.	A new option for mesh carving. Carving surface meshes by surface primitives
66	5.07	2012. 3.12.	New function to rescale the model. "Edit" -> "Convert Coordinate" -> "Scale"
65	5.07	2012. 3.10.	Help button to display the data file format for dynamic load and dynamic motion time series
64	5.07	2012. 3. 5.	Instant indication of the internal force or moment directions at the cursor point for the displayed frame diagrams
63	5.07	2012. 1.10.	Mac OSX 10.7(Lion) version
62	5.07	2011. 9.14.	Mohr circle and yield surface functions for nonlinear load combination analysis
61	5.07	2011. 9.13.	Addition of uncouple solution mode for two phase problems
60	5.06	2011. 8.23.	Addition of a new output item: displacement incremental rate
59	5.06	2011. 7.31.	Selection of the color for line vector drawing
58	5.06	2011. 7.21.	Grid origin and min-max range setting by dialog input
57	5.06	2011. 7.19.	Option of setting the sampling line by node selection for curve plotting
56	5.06	2011. 7.16.	Simplified diagram option for 2-D and 3-D frame
55	5.05	2011. 6.12.	Mesh deformation
54	5.05	2011. 5.30.	Contour (factor of safety) adjustment for slope stability
53	5.05	2011. 3.14.	Addition of interactive control to Mohr's circle functions
52	5.05	2011. 2. 6.	Control of the protection key through local area network or internet
51	5.05	2010.11.22.	Time or square root time scale option for multi-step plotting of transient seepage or consolidation analysis
50	5.05	2010.11.15.	Automatic saving and retrieving the Contour setting
49	5.05	2010.11.12.	Addition of "Rainbow soft", "Hard","Strong" items to "Color" option in "Countour Display" dialog

48	5.04	2010.11.05.	Option of square time steps in "Solve" dialog for transient seepage or heat transfer analysis
47	5.04	2010.10.20.	Turning on or off the grid subdivision using "Grid Setting" dialog. Previously done by using F1 - F10 keys
46	5.04	2010. 9.15.	Addition of "Beam Interface" element
45	5.04	2010. 9. 3.	Activation of traveling (moving) load for dynamic analysis
44	5.04	2010. 8. 8.	Addition of deflection to influence line items
43	5.04	2010. 7.14.	Option to display the resultant forces and the center line in moving load display
42	5.04	2010. 7.10.	Mathematical notations in combined drawing of shear force and bending moment diagrams
41	5.04	2010. 7.06.	Option to set the number of segments for simulation of moving load
40	5.04	2010. 7.03.	Representation of the area enclosed by the influence line
39	5.04	2010. 6.21.	Option to specify the property set for meshes imported from a text file
38	5.04	2010. 6.13.	Option to set the number of curve segments for rendering the shaded image of the frame deformation
37	5.04	2010. 6.12.	Remove the limitation for the number of curves. (limited to 32767 curves in previous versions)
36	5.03	2010. 6. 9.	"Suppress Curvature Effect" for axial and shear force diagram (only bending moment dia. in prev. ver.)
35	5.03	2010. 5.18.	Addition of new element type. Frame element with tapered section (V5)
34	5.02	2010. 5. 3.	Assignment of spring elements to nodes (previously, curves or surface meshes only).
33	5.02	2010. 4.30.	Addition of <Update history> item to <Help> menu.
32	5.02	2010. 4.27.	Double click assignment of dynamic motion.
31	5.02	2010. 4.18.	Display option of VisualFEA logo with wireframe rendering.
30	5.02	2010. 4.12.	Improved assignment of dynamic motion.
29	5.01	2010. 4.04.	Option of offsetting the rigid body motions from the dynamic time history.
28	5.01	2010. 3.22.	Multi-step plotting of data values represented by frame diagrams.
27	5.01	2010. 3.14.	Improved algorithm for evaluation of plasto-elastic failure factor.
26	5.01	2010. 2.27.	Improving the speed of importing mesh from text file. (Option to skip the extraction of boundary surface mesh)
25	5.00	2010. 1.10.	Internet authentication of the program licence.
24	4.12	2009.12.26.	Addition of "Stress table by depth" option for defining the insitu-stress.
23	4.12	2009.12.11.	Evaluation of yield factor for a point on the yield surface or the stress path.
22	4.12	2009.12. 8.	Data probing of the yield surface or the stress path.
21	4.12	2009.11.13.	Moving or probing of the Phi plane in the elasto-plastic yield surface.
20	4.12	2009.11. 1.	Improvement of yield envelope including the bounding limit.
19	4.12	2009.10.25.	Addition of Hoek-Brown (elasto-plastic) model.

18	4.12	2009. 8.15.	New mesh option "Stick Mesh to Primitive".
17	4.12	2009. 7.30.	total stress mode and effective stress mode for contouring
16	4.12	2009. 7.15.	Contour scaling based on the values of the rendered part of the model.
15	4.12	2009. 7.10.	Addition of "Joint Interface" element.
14	4.12	2009. 6.22.	Zooming and panning of Mohr circle.
13	4.12	2009. 5.23.	Coupled analysis of sequentially stage models.
12	4.12	2009. 5.16.	Interactive adjustment of the light source with instantly refreshed rendering
11	4.12	2009. 5.10.	Definition of material properties as a function of the depth.
10	4.12	2009. 5. 8.	New option of shading and contouring overlaid with outline image
9	4.11	2009. 4.28.	Addition or deletion of control points on curves (spline,Bezier, polyline, etc.)
8	4.11	2009. 4.17.	Equation coupled solution of the displacement d.o.f. and excess pore pressure d.o.f.
7	4.10	2009. 4. 4.	Bond strength of embedded bar
6	4.10	2009. 3.29.	Data probing of a point on the contour image.
5	4.10	2009. 3. 1.	Funtions (popup,hiding,moving, etc.) related to captions in frame diagrams.
4	4.10	2009. 2.20.	Addition of adaptive mesh reshaping option for fire destructive modeling.
3	4.10	2009. 2. 3.	Consolidation analysis
2	4.10	2009. 1.22.	Functional improvement of elasto-plastic yield surface and Mohr Circle
1	4.10	2009. 1.10.	Windows 64 bit version