

Sasakorn Siriyothin 2009: Development of TFAP-3D by Using Computer Graphic.
Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department
of Civil Engineering. Thesis Advisor: Associate Professor Sompothi
Vivithkeyoonvong, Ph.D. 59 pages.

TFAP-3D Program has been developed from the old version of TFAP-3, which is able to analyze the two and three dimensional truss and frame structures. Several load types can be applied to structures such as point load, uniform load, linear varying load, support settlement and temperature stress, etc. The original TFAP-3 had some problems of input data and the results were shown only in text file. All data could be shown by print out copy which either not only difficult to check the input data on the monitor, but also difficult to edit.

The TFAP-3 which developed by using Borland Pascal Language to be the ready to use “TFAP-3D”, was further developed using, Borland Delphi Version 7 to make this program easy to input data and to show the results in both table and graphical modes. Due to the ease of input data by graphic user interface on Windows system, it is able to show the results and to change the view of the structures which required in analysis of the two and three dimensional structures conveniently. This program is quick to input and to check data by commands, such as the command to copy the same structures, to enlarge the symmetric structures, and to separate and divide the structural elements, etc.

Student's signature

Thesis Advisor's signature