

## Pengenalan Ababil: Program Finite Element Analysis (FEA) 3-Dimensi Untuk Struktur Rangka-Batang

<b>Title</b>	Pengenalan Ababil: Program Finite Element Analysis (FEA) 3-Dimensi Untuk Struktur Rangka-Batang
<b>Author Order</b>	of
<b>Accreditation</b>	
<b>Abstract</b>	Ababil is an open source computer program working on the basis of finite element method (FEM) which is aimed to analyze frame structures. It is mainly designed as a solver without embedded pre-or/and post-processing units. Recently, the solver is compatible only for reading and writing in the Gmsh [1] pre- and post-processing software environment. The FEM kinematics formulation applied here is relied on the Timoshenko Beam Theory (TBT) using linear shape function. Finally, the well-known FEM software MSC.Nastran is used to ensure the capability of Ababil in the prediction of frame deformation by means of FEM simulation
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