# Computer Models
# For
# Fire and Smoke

*Model Name*:            LENAS

*Version*:               4.0

*Classification*:        Thermal model

*Very Short Description*: Numerical model of mechanical behavior of steel structures exposed to fire

*Modeler(s), Organization(s)*: ZHAO Bin, CTICM

*User's Guide*:          -----

*Technical References*:  -----

*Validation References*: -----

*Availability*:          non-commercial code

*Price*:                 uncommercial compute code

*Necessary Hardware*:    Work station, PC

*Computer Language*:     FORTRAN

*Size*:                  -----

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*Detailed Description*:

This model is capable of simulating mechanical behavior of 3D steel frames exposed to fire. It takes into account large displacement, material non-linearities, warping of thin steel beams, semi-rigid joints and spring boundary conditions.