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): Dr. 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.