

Computer Models For Fire and Smoke

<i>Model Name:</i>	SISMEF
<i>Version:</i>	3.0
<i>Classification:</i>	Thermal model
<i>Very Short Description:</i>	Numerical model of mechanical behavior of steel and concrete composite structures exposed to fire
<i>Modeler(s), Organization(s):</i>	Dr. ZHAO Bin, CTICM
<i>User's Guide:</i>	-----
<i>Technical References:</i>	-----
<i>Validation References:</i>	-----
<i>Availability:</i>	non-commercial
<i>Price:</i>	uncommercial compute code
<i>Necessary Hardware:</i>	Work station, PC
<i>Computer Language:</i>	FORTRAN
<i>Size:</i>	-----
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Detailed Description:

This model is capable of simulating mechanical behavior of 2D planar steel, concrete and composite frames exposed to fire. It takes into account large displacement, material non-linearities, slipping between steel beam and concrete slab, bond effect of composite

columns with concrete filled hollow steel sections, semi-rigid joints and spring boundary conditions.