Modeling techniques

Articles

Program related articles:

General articles:

Tutorials

Title	Description	Program
Cold-formed steel truss	This tutorial demonstrates the modeling of a cold-formed steel truss system.	SAP2000
Locate center of mass	Procedure for locating the center of mass for a structural system.	SAP2000
Modeling a pin connection between crossing members	Modify joints and apply constraints such that a pin connection allows crossing members to translate freely.	SAP2000
Reinforced-concrete column and beam design	Design reinforced-concrete columns and beams while considering combined performance measures and interaction-surface output.	SAP2000
Steel-frame pipe rack	A detailed and extensive procedure which describes the modeling, analysis, and design of a 3D steel-frame pipe rack system.	SAP2000
Vibrating-machinery steel skid on piles	This tutorial demonstrates the modeling of vibrating machinery and its connection to a steel-skid structural system.	SAP2000

Test Problems

Title	Description	Program
Human-induced vibrations	The modeling and analysis of human-induced vibrations due to footfalls or another type of impact.	SAP2000