

StructurePoint is a software company that provides concrete design solutions. Formerly the engineering software group of the Portland Cement Association (PCA), StructurePoint (SP) is located in Chicago and does business all around the world with clients in North America, the Middle and Far East. SP has representatives in India, Thailand, Saudi Arabia, Lebanon and the UAE. Formerly PCA products, the SP product line include design and analysis software for reinforced concrete beams, columns, mats, walls, slab systems, and frame analysis. These six programs make up the SP Suite. The software programs can be purchased as the Suite or individually to meet your specific needs over a large business computer network or as single standalone serving one laptop.

**Work quickly.
Work simply.
Work accurately.**

**StructurePoint's Productivity Suite of powerful software tools
for reinforced concrete analysis & design**

spwall
Finite element analysis & design of reinforced, precast ICF & tilt-up concrete walls

spcolumn
Design & investigation of rectangular, round & irregularly shaped concrete column sections

spbeam
Analysis, design & investigation of reinforced concrete beams & one-way slab systems

spslab
Analysis, design & investigation of reinforced concrete beams & slab systems

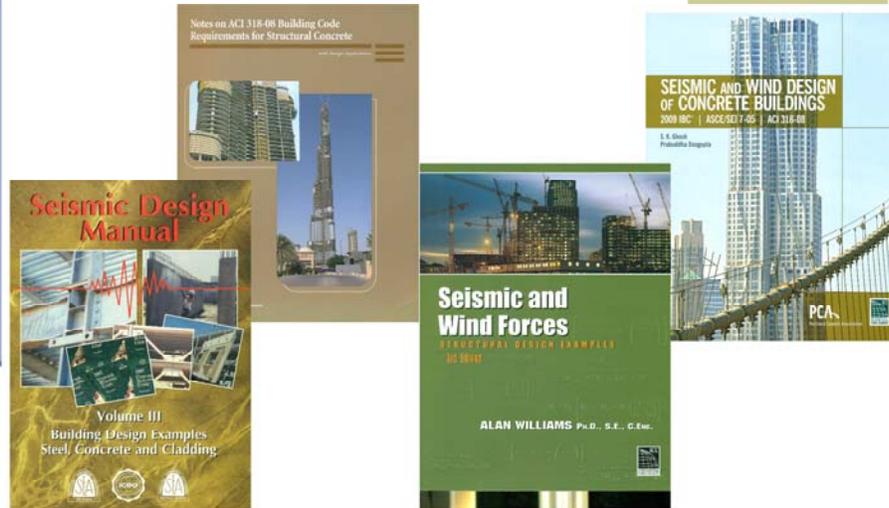
spmats
Finite element analysis & design of reinforced concrete foundations, combined footings or slabs on grade

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The SP Suite has the capability to design an entire concrete structure from foundation to roof. These programs are based on the methods, equations, and procedures found in ACI 318 and CSA 23.3 in English and Metric units. Due to the schedule of updating the concrete codes, the five code driven software are given a major upgrade every three years along with annual updates. The SP suite is designed to allow the user to work quickly, simply and accurately. In essence, you can get to a final design solution fast with confidence and little training and wasted time.

The Industry Standard

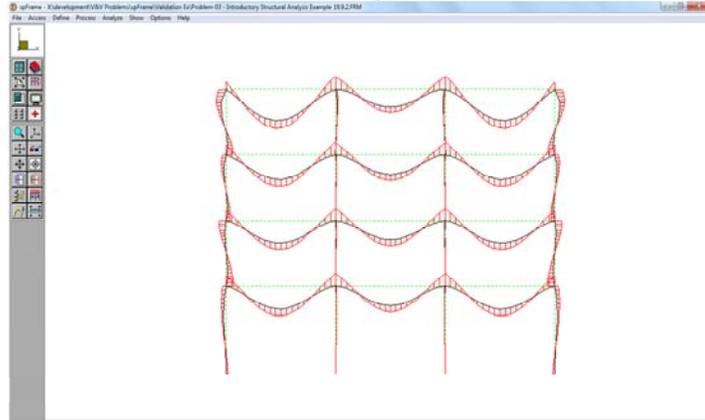


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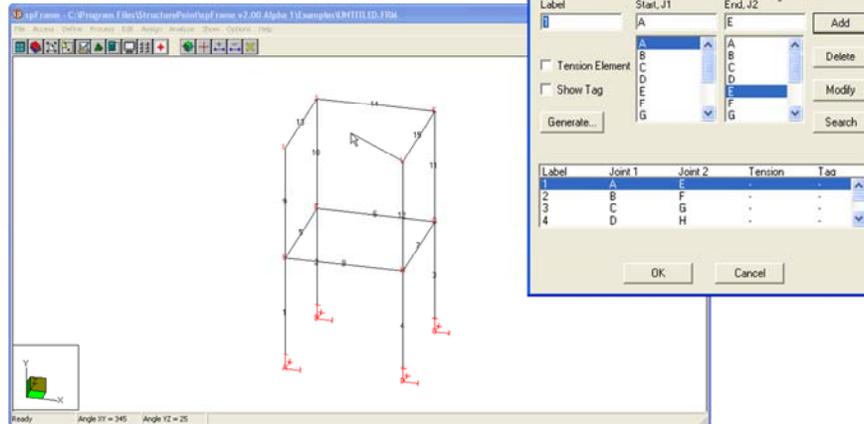
Use of the StructurePoint software can be found in many publications regarding reinforced concrete design and analysis.

- General purpose structural analysis of 2-D and 3-D structures subject to static loads



spFrame is a structural analysis tool for two and three dimensional truss or frame systems. Multi-purpose structural modeling and analysis software for three-dimensional buildings and structures with robust, quick yet simple interface. spFrame calculates internal forces, reactions, rotations, and displacements using linear structural analysis.

■ Creating the Model



The screenshot displays the spFrame software interface. The main window shows a 3D truss model with joints labeled A through H. A 'Members' dialog box is open, allowing the user to define members between joints. The dialog includes fields for 'Label', 'Start, J1', and 'End, J2', along with a list of available joints (A-H) and buttons for 'Add', 'Delete', 'Modify', and 'Search'. A table at the bottom of the dialog shows the current member list:

Label	Joint 1	Joint 2	Tension	Tag
1	A	E	-	-
2	B	F	-	-
3	C	G	-	-
4	D	H	-	-

Frames and trusses can be quickly modeled in spFrame using either the graphical interface to create members between joints or by assigning members by assigning beginning and ending joints.

■ Applying the Forces

Member Loads

Label: Dist1

Type: Point Load Distributed Load Moment Load Left Triangle Right Triangle Temperature

Intensity (w): 5 kN/m

Distance from J1/Length: 0

Load Length/Length: 1

Orientation: Local Global Projection

Direction: X Y Z

Label	O-D-T	Par1	Par2	Par3
Dist1	L&P	5	0	1
Trn_1	L&S	10	0	0.75
P1	L&P	12	0	-
P2	L&P	20	0	-

OK Cancel

Known Displacements

Load case: Settlement

Joint List: A, B, C, D, E, F

Dx: 0 mm Rk: 0 Rad

Dy: 10 mm Ry: 0 Rad

Dz: 0 mm Rz: 0 Rad

Joint	Dx	Dy	Dz	Rk	Ry	Rz
A	0	10	0	0	0	0

Add Delete Modify

Joint Loads

Load case: Wind

Joint List: A, B, C, D, E, F

Fx: 10 kN Mx: 0 kN-m

Fy: 0 kN My: 0 kN-m

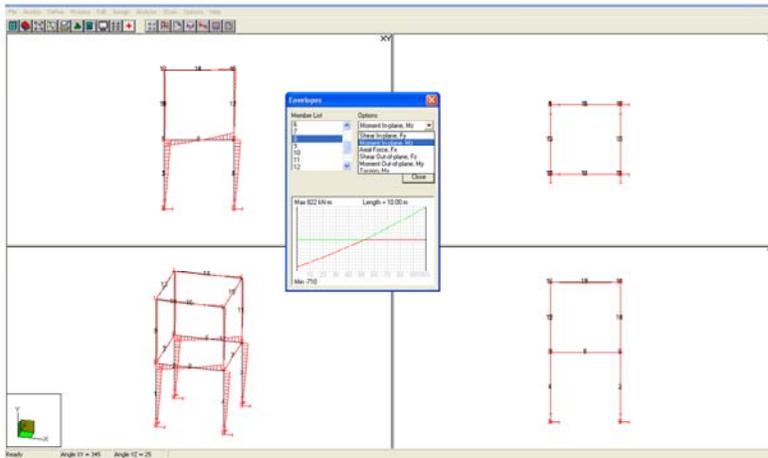
Fz: 0 kN Mz: 0 kN-m

Joint	Fx	Fy	Fz	Mx	My	Mz
F	10	0	0	0	0	0
E	10	0	0	0	0	0
I	15	0	0	0	0	0

OK Cancel

spFrame models load as member loads in the form of distributed, point load, or temperature loads. The program can also handle joint loads and loads induced by settlement or temperature effects.

■ Viewing Results



The internal forces of a structure can be analyzed by viewing the shear and moment diagrams by load combinations or by viewing the member envelopes. These results can be seen graphically side by side as well as in a tabular format.

The slide features a blue vertical bar on the left and a light green horizontal bar at the top right. The StructurePoint logo is centered, with 'Structure' in black and 'Point' in a larger black font, separated by a red vertical line. Below the logo, the text 'CONCRETE SOFTWARE SOLUTIONS' is written in red. A white rectangular box with a blue border contains the contact information in red text. The number '58' is located in the bottom right corner of the slide.

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Email: info@StructurePoint.org

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StructurePoint would be glad to hear from you and receive your feed back as well as answer any questions regarding the program features, capabilities, price, and licensing options