

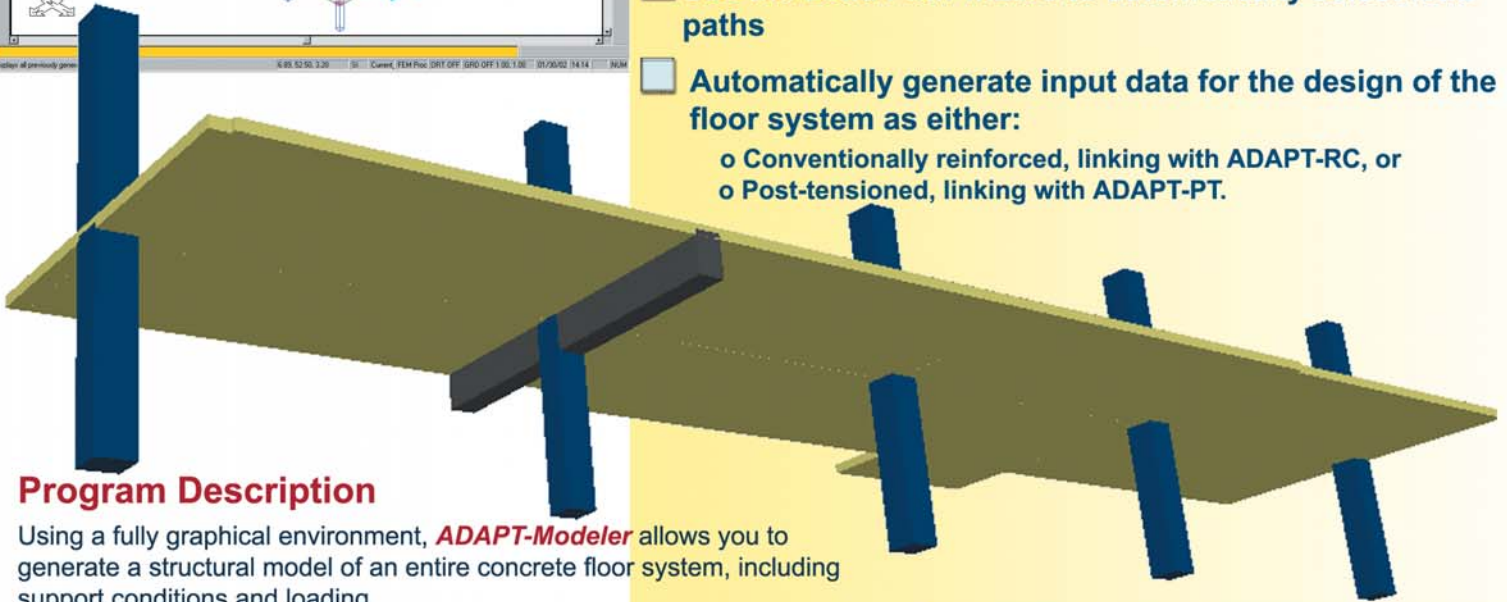
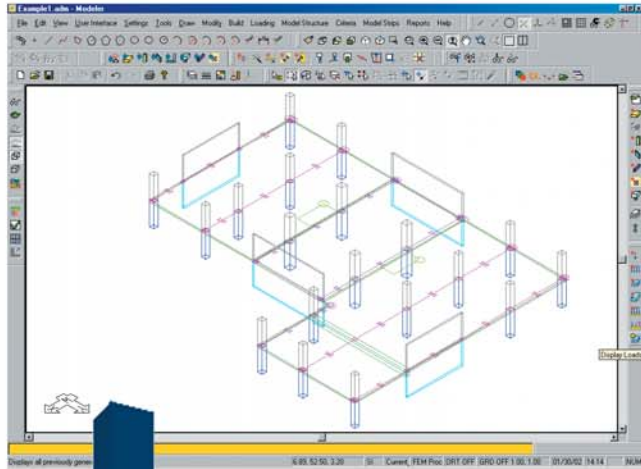


ADAPT-Modeler

For Graphical Creation of Structural Models

Data generation for:

- ✓ ADAPT-RC
- ✓ ADAPT-PT



Program Description

Using a fully graphical environment, **ADAPT-Modeler** allows you to generate a structural model of an entire concrete floor system, including support conditions and loading.

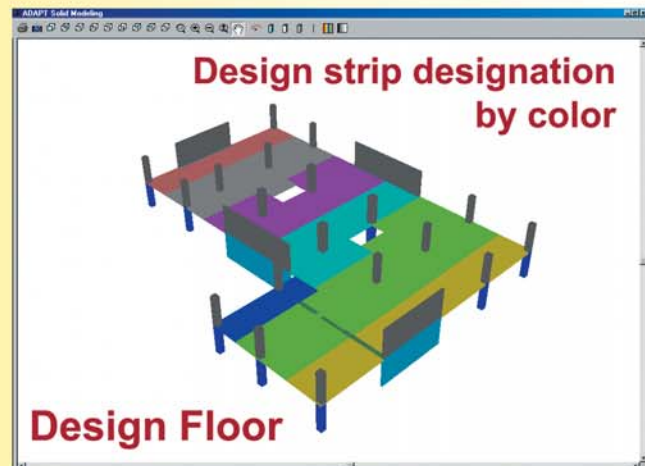
The model can then be analyzed and designed using ADAPT-RC, for conventionally reinforced floors, or ADAPT-PT for post-tensioned floors.

ADAPT-Modeler is designed to deliver an essentially automatic modeling of the entire structural system with full recognition of all the geometrical features of the floor system, such as beams, openings, steps above and below the slab, drop caps and drop panels. Most of the data input can be done via the mouse.

You can view, verify and edit each part of the structural model either in isolation or in its assembled condition. When used in conjunction with the design programs ADAPT-RC and ADAPT-PT, you can view the idealized structural model either as a three dimensional solid or in a tabular report form. The idealized model can also be edited before analysis

3D Solid Models for Structural Analysis

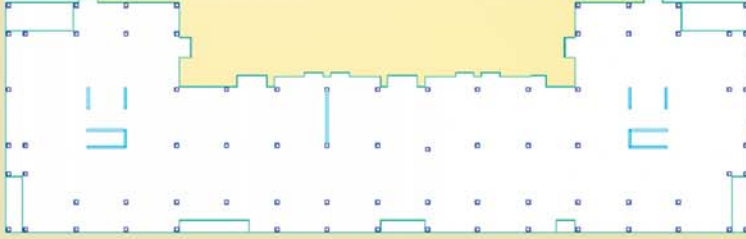
- Create a three dimensional structural model of the entire floor system from:
 - o DWG/DXF files, or
 - o By using Component Technology to assemble the structure
- Model slabs, steps above and below the slab, beams, openings, drop caps, drop panels
- Place column and wall supports anywhere
- Apply loads of any configuration, anywhere on the slab, with a mouse click
- Use the Modeler wizard to create structures of common configuration
- Use the Load Path wizard to automatically select load paths
- Automatically generate input data for the design of the floor system as either:
 - o Conventionally reinforced, linking with ADAPT-RC, or
 - o Post-tensioned, linking with ADAPT-PT.



Design strip designation by color

Design Floor

ADAPT-Modeler

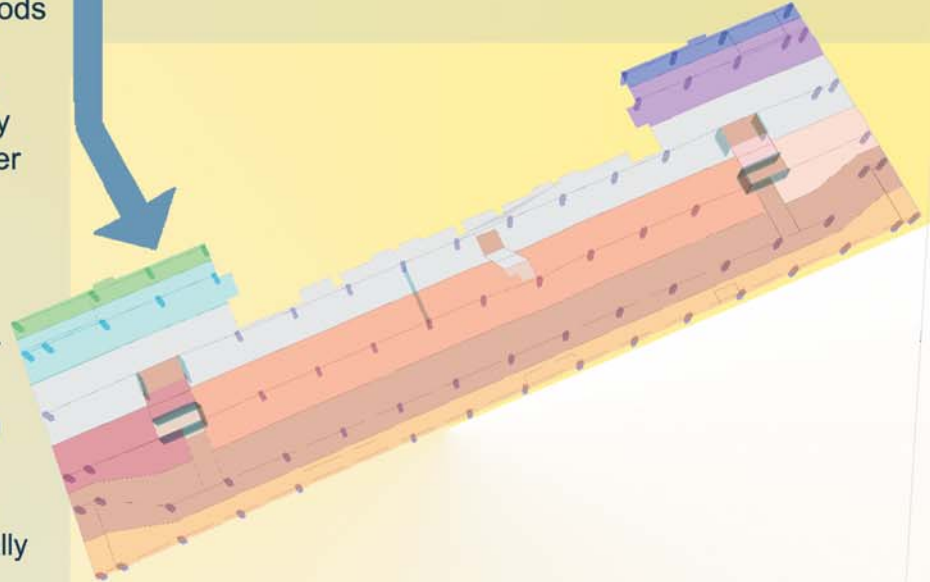


ADAPT-Modeler breaks a floor system into intersecting design strips to be used with either the Equivalent Frame or Simple Frame methods of design. The data from each design strip, including the strip geometry, the loading, the material and design criteria, are automatically extracted and exported as input data for either ADAPT-RC (nonprestressed) or ADAPT-PT (prestressed) analysis.

- ◆ Each design strip can be displayed in a three-dimensional view for modeling verification.
- ◆ The Modeler's idealization can be over-ridden by editing the design data it generates.
- ◆ Loading is entered by simply placing it where it occurs on the slab. The Modeler automatically distributes the loading to the design strips.
- ◆ To complete the design, the programs ADAPT-RC and ADAPT-PT can be called from within the Modeler by clicking on an icon.

Features

- True three-dimensional modeling
- Load path (support line) wizard guides you in determining the load path of the structure
- Automatic determination and calculation of load tributaries
- Where necessary, automatically lines up walls at the edge of slabs and openings



Codes

The program comes in ACI, IBC (International Building Code), and a number of other building codes.

Technical Support and Training

Prompt and competent technical support is provided by ADAPT software developers and engineers who are engaged in the design of concrete structures on a daily basis. The support is either through ADAPT headquarters in California, or through regional representatives in Europe and Asia. Training is offered at ADAPT's Headquarters in the San Francisco Bay area, at the client's office or via scheduled seminars worldwide.

Hardware Requirements

PC compatible computer, Windows operating system, minimum of 128 MB RAM, 10 GB hard drive.

Units

● SI ● MKS ● American Customary

Authors

Many talented engineers and software developers have been involved in the creation of this software over the years. All have made significant contributions. The work was inspired and led by **Dr Bijan O. Aalami**, Professor Emeritus of San Francisco State University, a California Structural Engineer and a world leader and teacher in the design of concrete buildings, bridges, special structures and post-tensioning.

Warranty

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ADAPT is now serving engineers in over 70 countries around the world



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