



Cutting-edge annotated graphics make it easy to access or review analysis input data.

## CAESAR II<sup>®</sup>

CAESAR II is the Pipe Stress Analysis standard against which all others are measured. CAESAR II evaluates structural response of piping systems and their code-defined stresses caused by a wide variety of loads in accordance with many international standards.

### Data Collection

The CAESAR II spreadsheet collects and displays all data that defines a piping system model. Input can be reviewed or modified on an element-by-element basis, or datasets can be selected to make global changes. Data can also be accessed via CAESAR II's cutting-edge graphical output.

### Graphics

The CAESAR II input graphics module quickly identifies most input modeling mistakes and provides a useful indication of the piping system's flexibility and the ability to easily identify problem areas. Color-coded stress models and animated displacements for any stress load case are also available.

### Analysis Options

Besides the evaluation of a piping system's response to thermal, deadweight and pressure loads, CAESAR II analyzes the effects of wind, support settlement, seismic loads and wave loads. Nonlinear effects such as support lift off, gap closure and friction are also included. CAESAR II selects the proper springs for supporting systems with large vertical deflections. Dynamic analysis capabilities include modal, harmonic, response spectrum and time history analysis.

### Output

The CAESAR II program includes an integrated error checker that is run at the completion of the input specification. This error checker analyzes the user-specified input and checks it for consistency from both a "finite element" and "piping" point of view.

### Content

CAESAR II incorporates table look-ups for piping materials, pipe sizes, valve/flange weights and lengths, expansion joint assemblies, structural steel sections, spring hanger catalogs and material properties including allowable stress. This ensures correct data are used for each analysis. CAESAR II applies the rules of most piping codes used around the world.

### Interfaces

CAESAR II incorporates the industry's first and only seamless bi-directional link between CAD and analysis. This link to COADE's plant design package—CADWorx<sup>®</sup> Plant—allows the passing of design and analysis data between these packages with no data loss.

### Features

- Regularly updated international piping codes
- Buried pipe, FRP and structural steel modeling
- Equipment post processing
- Material database
- Training seminars available
- Fully supported by development engineers
- Enhanced regularly for piping code updates
- Bi-directional links to CADWorx Plant

### Technical Specs

- Microsoft Windows XP Pro or Windows Vista Ultimate (minimum)

### Application Areas

Process and Plant Design, Piping, Equipment, Petrochemical, Chemical, Power, Food, Beverage, Brewing, Pharmaceutical, Water Treatment, Shipboard Piping.

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## COADE, INC.

12777 Jones Road, Suite 480  
Houston, Texas 77070 USA

Phone: + 1 281-890-4566  
US Toll Free: 1 800-899-8787  
Fax: + 1 281-890-3301  
E-mail: sales@coade.com  
Web: www.coade.com