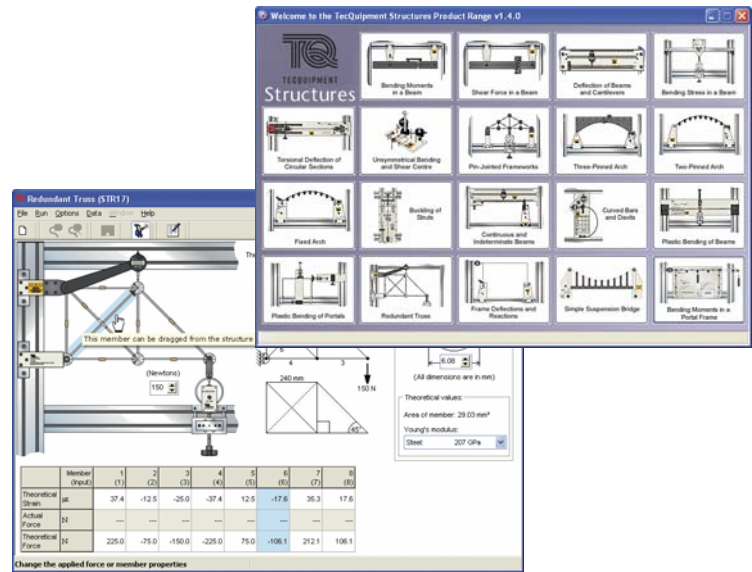


# STRUCTURES SOFTWARE

## STRS

Software that allows computer simulation of structures. Simulates and extends TecQuipment's Structures range.

- Accurately simulates all 19 of TecQuipment's Structures range experiments
- Includes user guides with suggested experiments and typical answers
- Gives virtual experiments that extend beyond the limits of the experiment hardware
- Single-user and networked options available
- Latest version of the software can be downloaded from the website



### LEARNING OUTCOMES:

Computer-simulated examination of a wide variety of structures principles, including:

- Bending moments in a beam
- Shear force in a beam
- Deflection of beams and cantilevers
- Bending stress in a beam
- Torsional deflection of circular sections
- Unsymmetrical bending and shear centre
- Pin-jointed frameworks
- Three-pinned arch
- Two-pinned arch
- Fixed-arch
- Euler buckling of a column
- Continuous and indeterminate beams
- Curved bars and davits
- Plastic bending of beams
- Plastic bending of portals
- Redundant truss
- Frame deflections and reactions
- Simple suspension bridge
- Bending moments in a portal frame

### SEE FOR YOURSELF!

DOWNLOAD A DEMONSTRATION VERSION FROM THE 'DOWNLOADS' PAGE OF OUR WEBSITE

TecQuipment's Structures Software is ideal for students of civil, mechanical and structural engineering. It allows them to perform computer-simulated experiments which study the principles of structures.

**NOTE:** The Structures Software (STRS) can be bought by itself, but it is also included free with the Automatic Data Acquisition Unit (STR2000) – **SEE PAGE 189.**

The software is also supplied with the Structures packages – **SEE PAGE 187.**

### ESSENTIAL ANCILLARIES:

- Suitable computer (not supplied by TecQuipment)