

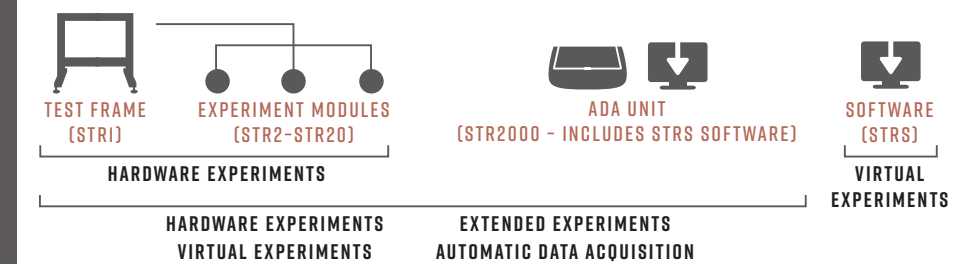
STRUCTURES

The Structures range consists of teaching equipment for understanding basic structural principles, focusing on beams, bridges and cantilevers for students of mechanical, civil and structural engineering.

The 19 desk-mounted experiment modules can be used stand alone or with TecEquipment's powerful Structures software which provides automatic data acquisition (ADA). To complement laboratory learning, experiments can also be performed virtually, using only the software.



TECEQUIPMENT



RECOMMENDED STRUCTURES PACKAGES:

ARCHES, BRIDGES AND TRUSSES STRA

- PIN-JOINTED FRAMEWORKS STR8
- THREE-PINNED ARCH STR9
- TWO-PINNED ARCH STR10
- FIXED ARCH STR11
- REDUNDANT TRUSS STR17
- SIMPLE SUSPENSION BRIDGE STR19

DEFLECTIONS AND STRESS STRB

- DEFLECTION OF BEAMS AND CANTILEVERS STR4
- BENDING STRESS IN A BEAM STR5
- CONTINUOUS AND INDETERMINATE BEAMS STR13
- CURVED BARS AND DAVITS STR14
- FRAME DEFLECTIONS AND REACTIONS STR18

FAILURE STRC

- EULER BUCKLING OF A COLUMN STR12
- PLASTIC BENDING OF BEAMS STR15
- PLASTIC BENDING OF PORTALS STR16

MOMENTS STRD

- BENDING MOMENTS IN A BEAM STR2
- SHEAR FORCE IN A BEAM STR3
- BENDING MOMENTS IN A PORTAL FRAME STR20

TORSION STRE

- TORSION OF CIRCULAR SECTIONS STR6
- UNSYMMETRICAL BENDING AND SHEAR CENTRE STR7

EXPERIMENT MODULES

TEST FRAME STR1 	BENDING MOMENTS IN A BEAM STR2 	SHEAR FORCE IN A BEAM STR3 	DEFLECTION OF BEAMS AND CANTILEVERS STR4 	BENDING STRESS IN A BEAM STR5 	TORSION OF CIRCULAR SECTIONS STR6 	UNSYMMETRICAL BENDING AND SHEAR STRESS STR7
PIN-JOINTED FRAMEWORKS STR8 	THREE-PINNED ARCH STR9 	TWO-PINNED ARCH STR10 	FIXED ARCH STR11 	EULER BUCKLING OF A COLUMN STR12 	CONTINUOUS AND INDETERMINATE BEAMS STR13 	CURVED BARS AND DAVITS STR14
PLASTIC BENDING OF BEAMS STR15 	PLASTIC BENDING OF PORTALS STR16 	REDUNDANT TRUSS STR17 	FRAME DEFLECTIONS AND REACTIONS STR18 	SIMPLE SUSPENSION BRIDGE STR19 	BENDING MOMENTS IN A PORTAL FRAME STR20 	STRUCTURES SOFTWARE STRS

