

# Load optimizer

**CSiLoadOptimizer** is a tool available to [SAP2000](#) and [CSiBridge](#) for determining an optimal set of loads, including cable tensioning, to achieve specified goals in a structural model. The loads to be optimized can be applied in any static load case, which can be of type linear, nonlinear, or [staged-construction](#). The goals are specified as the values to be attained for response quantities such as joint displacements, [generalized displacements](#), joint reactions, member forces or moments, and/or bridge superstructure forces and moments (CSiBridge only). The optimization operation consists of determining the scale factors of variable loads in the static load case linear to best meet these goals.

## See also

- [CSiLoadOptimizer Watch and Learn Video for SAP2000 and CSiBridge](#)
- [CSiLoadOptimizer Technical Note](#)