

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](#)