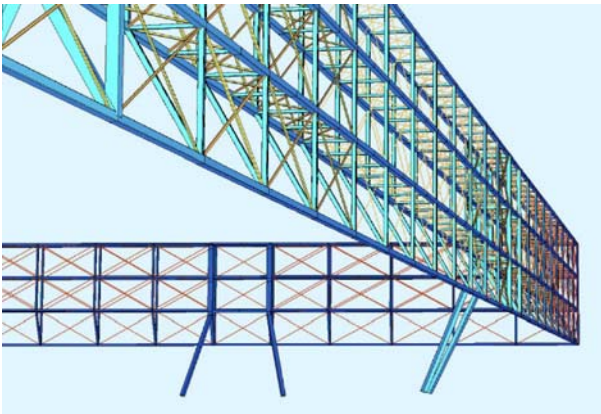
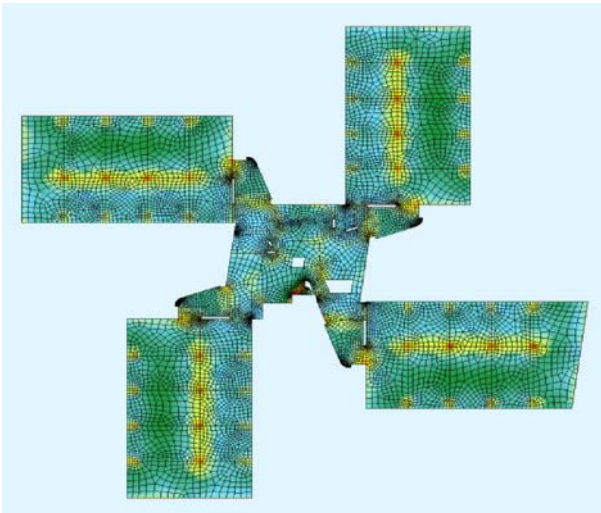




Spatial steel construction - reality



Spatial steel construction - computer model



FE-Model of slabs with bending stresses



## Administration Center Swiss Re Germany AG

Unterfoehring near Munich

Administration complex with large groundwater basin and 150 m x 150 m steel construction surrounding the building

Characteristics:

Large flat slabs with span width up to 19 m, column-free hanging slabs, large (150 m x 150 m) 3 story spatial steel construction with pre-stressed cables surrounding the building.

Large smooth groundwater basin with tensile anchors for safety against buoyancy.

Gross volume approx. 350.000 m<sup>3</sup>

Cost of building approx. 130 Mio EUR

Client:

Swiss Re Germany AG

Dieselstrasse 11, 85774 Unterfoehring

Architect:

Bothe-Richter-Teherani, Hamburg

Our Services:

Official checkin

Site management and supervision acc. to HOAI

Complete and independent computation of the complex structures by means of spatial FE-models

Investigation of various non-linear effects, for example iterative calculation of the ground plate under consideration of discontinuation of tensile stresses in soil.

