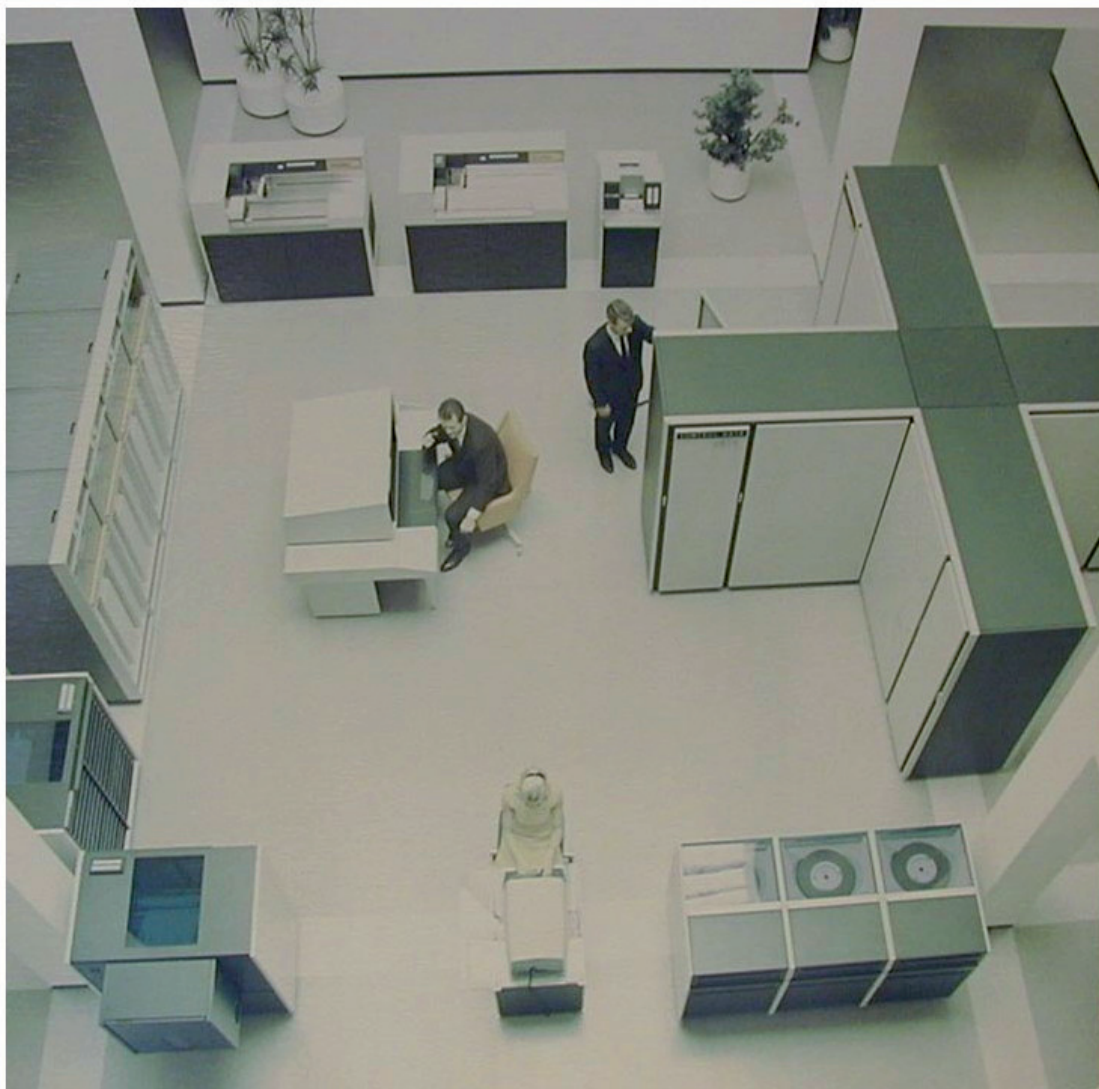


Multihalle Mannheim - How we designed and analysed the structure originally, and would we do it any differently now?

Christopher John Kenneth Williams, Chalmers University of Technology, Göteborg

This talk is a personal memory of working with Ted Happold and Ian Liddell at Ove Arup in London on the design and structural analysis of Frei Otto's Mannheim Multihalle. Not much has changed in the intervening years, except that computers are much cheaper and more powerful.

Fortunately the design and construction is well documented in the Institut für leichte Flächentragwerke publication IL 13: Multihalle Mannheim and in E. Happold and W.I. Liddell, Timber Lattice Roof for the Mannheim Bundesgartenschau, The Structural Engineer, March 1975, No. 3, Volume 53 (1975).



**CDC 6600. Base model price \$6,891,300
– Approximately \$40 to \$50 million today**

