



# Hyperbolic Structures: Shukhov's Lattice Towers - Forerunners of Modern Lightweight Construction

*Matthias Beckh*

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*Hyperbolic structures* analyses the interactions of form with the structural behaviour of hyperbolic lattice towers, and the effects of the various influencing factors were determined with the help of parametric studies and load capacity analyses. This evaluation of Shukhov's historical calculations and the reconstruction of the design and development process of his water towers shows why the Russian engineer is considered not only a pathfinder for lightweight structures but also a pioneer of parametrised design processes.



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