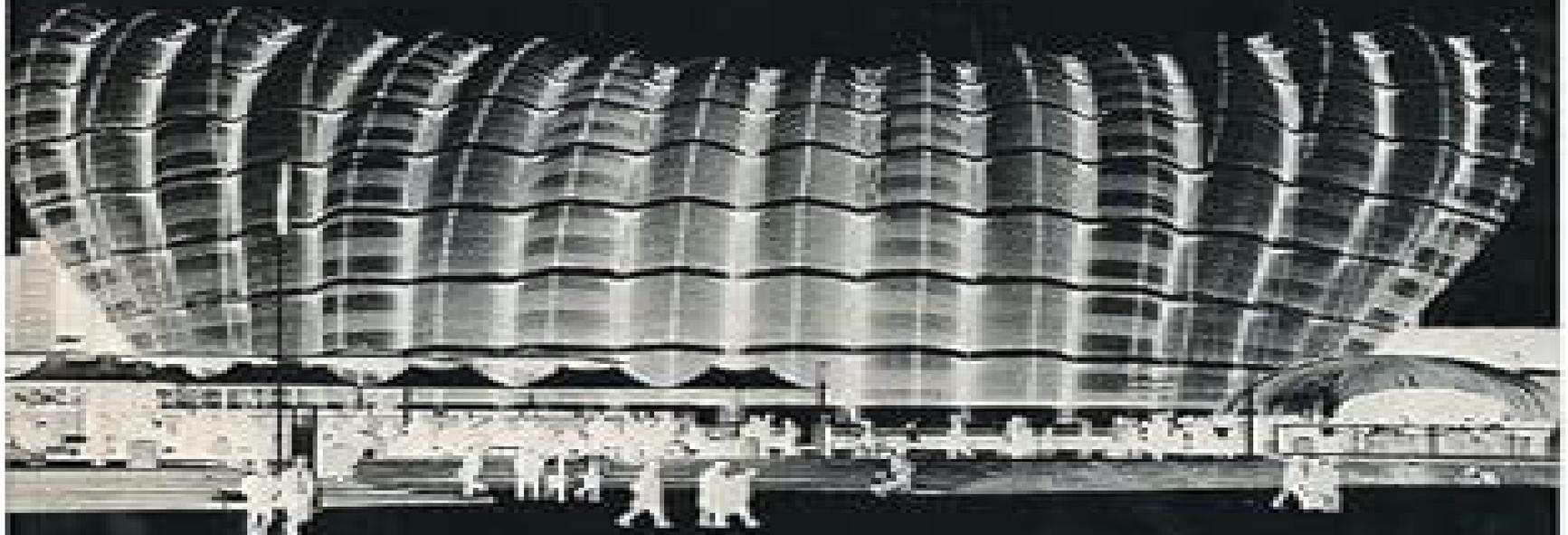


Thomas Herzog

# Pneumatic Structures

A Handbook of Inflatable Architecture



Oxford

# Pneumatic Structures A Handbook Of Inflatable Architecture

**Klaus-Michael Koch**



## **Pneumatic Structures A Handbook Of Inflatable Architecture:**

Pneumatic Structures Thomas Herzog, Gernot Minke, H. Eggers, 1976 This is a handbook for architects and structural engineers providing the theory behind pneumatics and describing the advantages of being able to construct buildings that cover vast areas inexpensively Major pneumatic structures throughout the world are examined as well historical developments Technical data is included membrane characteristics methods of cutting and joining stabilisation measures problems of transport and erection The book contains diagrams which simplify calculations for cylindrical and spherical membranes *Pneumatic structures; a handbook of inflatable architecture; with contributions by Gernot Minke and Hans Eggers* T. Herzog, 1976 Construction Manual for Polymers + Membranes Jan Knippers, Jan Cremers, Markus Gabler, Julian Lienhard, 2012-12-17 Whether it be as translucent sheets broadly stretched membranes and inflated foil cushions or in graceful organic curves architecture today is utilizing plastics in the most disparate forms and for a wide variety of purposes Innovative technical developments are constantly improving its material properties at the same time there is a growing new awareness of its potential as a construction material While plastics used to be employed primarily as an inexpensive variant on traditional building materials they are increasingly regarded in the construction world today as a serious and viable alternative be it as supporting structures roofs facades or elements of interior design and decoration Thanks in large part to this inherent self sufficiency plastics are currently enjoying an unprecedented surge in popularity even among the international architectural avant garde as multiwall sheets or corrugated fiber reinforced panels or as filling between glass panes And the new generation of ecological bioplastics also pays tribute to the debate on sustainability ridding plastics of their lingering reputation as environmental offenders From the history of plastics and membranes in architecture to their material properties and requirements in construction and design the *Plastics and Membranes Construction Manual* cuts to the chase providing the kind of solid and comprehensive overview of the subject that readers have come to expect from the *Im DETAIL* series Selected project examples round off the reference work and make it indispensable for the day to day life of the professional planner and for every architecture library Facade Construction Manual Thomas Herzog, Roland Krippner, Werner Lang, 2012-12-10 Facades they are the first feature of a building to be noticed they determine its distinctive appearance and are often the subject of controversial debate This new first edition of the *Facade Construction Manual* provides a systematic survey of contemporary expertise in the application of new materials and energy efficient technologies in facade design and represents an invaluable addition to our series of *Construction Manuals* It surveys the facade design requirements made by various types of buildings as well as the most important materials from natural stone through to synthetics and documents a diversity of construction forms for a wide range of building types Over 100 international case studies in large scale detailed drawings are presented in the comprehensive project section **High Performance Technical Textiles** Roshan Paul, 2019-02-19 An authentic resource for the fundamentals applied techniques applications and

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*Pneumatic Structures: a Handbook for the Architect and Engineer: (by) Thomas Herzog: with Contributions by Gernot Minke and Hans Eggers* Thomas Herzog,1977

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*Membrane Structures* Klaus-Michael Koch,2004 In this comprehensive work to date on membrane technology for architecture pioneers show how one of the world s oldest forms of building material is also its most innovative Today the cutting edge in architecture is not sharp but curved and undulating It is also impermeable to moisture resistant to extreme temperatures flexible and portable Known as the fifth building material after wood stone glass and metal membranes are popping up everywhere in Olympic stadiums in Berlin and Atlanta in airports from Denver to Bangkok over fashion shows formal gardens and soccer fields Membranes ability to not only let in but also reflect light portends enormous

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