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## Structural icons for architects

© Sabah Shawkat

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## Sabah Shawkat

Sabah Shawkat is a structural designer, specializing in lightweight structures, such as tensile structures, tensile integrity structures, grid shells and reciprocal frames. He focuses on transforming these beautiful structures into design components such as chairs, tables, illuminated lamps or hammocks for interiors, gardens or public spaces.

Sabah Shawkat is also a passionate expert in traditional fibre reinforced and prestressed structures. He has published numerous articles in professional journals and has written several books.

He teaches students of architecture and building engineering. Moreover, he regularly organizes workshops for students and exhibitions of his own as well as student projects and construction models. He is also actively involved in projecting and building constructions as well as reconstructions and modernizations of buildings.

## **Richard Schlesinger**

Richard Schlesinger works as an assistant professor at the Engineering Room of the Academy of Fine Arts and Design in Bratislava. He defended his dissertation on design and technological procedures used in monument protection at the Department of Architecture, Faculty of Civil Engineering of the Slovak University of Technology.

Richard Schlesinger teaches students of architecture several structural engineering subjects such as Introduction to Structural Engineering and Construction in Architecture. Moreover, he regularly organizes workshops and exhibitions of student projects and construction models. He is also actively involved in projecting, building construction and reconstructions as well as modernisations of buildings.

## INTRODUCTION

- A PROPERTIES OF FIBRE REINFORCED CONCRETE, REINFORCED CONCRETE AND HIGH PERFORMANCE CONCRETE
- **B** STRUCTURAL LOADS
- **C** METHODOLOGY OF STRUCTURES
- **REINFORCED CONCRETE**
- PRECAST CONCRETE
- BONDED AND UNBONDED PRESTRESSING TENDONS
- **G** STEEL STRUCTURES
- TIMBER STRUCTURES
- CREATIVITY IN STRUCTURAL DESIGN
- TERMINOLOGY