

Historical Architectonics

This book deals with the building constructions of the past one thousand years. It is structure-centred; and has a historical approach. It complements rather than substitutes the specialist books on architectonics of our time. The knowledge of the building methods of our predecessors is instructing and inspiring at the same time. In the heart of our mind there lie hidden the expertise of our ancestors, and this does influence our way of thinking. Old solutions may give inspiration even to the architecture of today.

This work might be in useful to designing architects, building engineers and building owners, who want

- to get familiarised with the ancient building structures, and the technology of their construction,
- to determine the age of old buildings,
- to restore old buildings with exact structures of a given period of time,
- to know the supporting power of the old constructions,
- to achieve old effects.

This book is based on building researches, on period plans and publications. Chronologically it deals with the building structures of the 10th to the 19th centuries.

It discusses:

- the solutions of the one-time structures,
- the history of the ancient technologies,
- the metrical principles of the old structures,
- the prospects of the restoration, completion and replacement of old structures.

The book focuses on the constructional methods and planning principles of arches, and the roofing structures.

The structure of the book:

- I. Introduction
- II. The ancient building practice
- III. Foundations
- IV. Walls
- V. Architectural Elements
- VI. Vaults and Arches
- VII. Wooden Structures I.; Floors
- VIII. Wooden Structures II.; Roof Structures
- IX. Structures made of Iron
- X. Staircase Structures
- XI. Reinforced Concrete Structures