



User-oriented and fully automated

Maad Bali, Dietmar A. Half, Dieter Polle, Jürgen Spitz

Smart Building Design

Conception, Planning, Realization, and Operation

140 pages | 75 Figures (bw) | 75 Figures (c)

How can smart technology open up new design opportunities – for the design, the execution, and the operation of buildings and for the digitalization of construction?

A hitherto unusual conception of the building as a cybernetic architectural system forms the basis of this integrated design approach. The authors – architects and engineers with extensive design experience – contribute an overview of current technical components of automation and communication systems, as well as a summary of relevant laws, standards, and guidelines.

Six example projects demonstrate completed applications at different scales, from a single-family residence to office buildings, and through to the Elbphilharmonie concert hall – amply illustrated in text, drawings, and photos.

Systematic design concept for smart building technology

Illustrates the breadth of digital applications and the required cooperation between trades

Overview of the most popular system solutions

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Architecture > Construction

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Dimensions define space

Bert Bielefeld

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Spaces in Architecture is a useful reference work for students and designers for quickly looking up detailed information on space scenarios that occur in many different types of buildings. For example, the book lists all important dimensions for entrance areas, doors, staircases, ramps, and elevators. On the basis of this fundamental information it is possible to design buildings in terms of function and type.

Bert Bielefeld, Professor at the University of Siegen, managing partner of bielefeld&partner in Dortmund, Germany.

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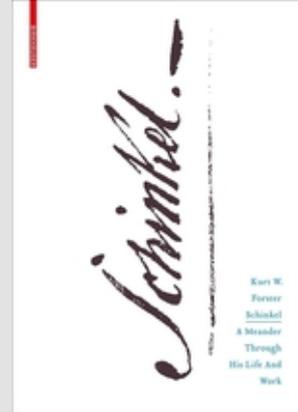
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Kurt W. Forster

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Dietmar Eberle, Florian Aicher (Eds.)

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