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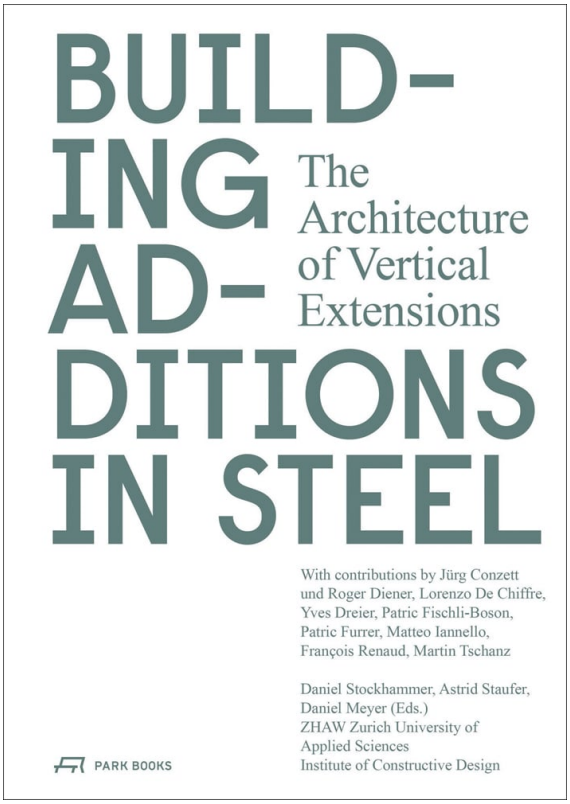

Building Additions in Steel

The Architecture of Vertical Extensions

Edited by Daniel Stockhammer

Edited by Astrid Staufer

Edited by Daniel Meyer

Edited by Zurich University of Applied Sciences Institute of Contructive Design

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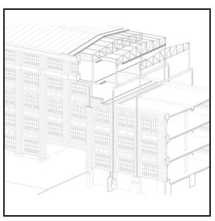
- A concise survey of outstanding contemporary projects for vertical extension of existing buildings, exploring the largely ignored steel additions in architecture and engineering
- Building in the existing fabric of increasingly compacting urban areas is a much debated issue in architecture today
- Based on recent research at Zurich University of Applied Sciences' Institute of Constructive Design

Since the introduction of steel as a building material in the early twentieth century, its superior performance has challenged conventional wisdom about construction, enabling designs of surprising lightness and span. Steel offered the opportunity to significantly expand buildings vertically and thus emerged as a symbol of the conflict between technological progress and the architectural ideal. More recently, the use of exposed steel elements in modern architecture ushered in a rediscovery of buildings' metamorphoses. *Building Additions in Steel* looks at the largely ignored topic of steel additions in architecture and engineering, documenting an ambitious, interdisciplinary research project by architects, engineers, teachers, and students at the Zurich University of Applied Sciences, Institute of Constructive Design. The book offers basic theoretical and technical information on a selection of outstanding steel additions alongside more than 100 illustrations, including plans and photographs. With contributions by Jürg Conzett and Roger Diener, Lorenzo De Chiffre, Yves Dreier, Patric Fischli-Boson, Patric Furrer, Matteo Iannello, Daniel Meyer, François Renaud, Astrid Staufer, Daniel Stockhammer, and Martin Tschanz.

Daniel Stockhammer is a teaching and research assistant at the University of Liechtenstein, Institute of Architecture and Planning. **Astrid Staufer** is an architect, professor at Technische Universitat Vienna, and codirector of the Zurich University of Applied Sciences, Institute of Constructive Design, an interactive hub for teaching and research in building design and construction in Winterthur, Switzerland. **Daniel Meyer** is a civil engineer and a lecturer at the Zurich University of Applied Sciences, Institute of Constructive Design. **Jürg Conzett**, dipl. Bauingenieur ETH/SIA (born 1956) studied civil engineering at EPF Lausanne and ETH Zurich. Diploma in 1980. Worked with Peter Zumthor. Since 1988: own engineering office in Chur (Conzett Bronzini Partner). Major projects: Punt da Suransuns, Traversiner Footbridge. **Roger Diener**, born 1950, is an architect educated at ETH Zurich and EPFL in Lausanne and a principal with Diener & Diener Architects in Basel. He taught as a Professor of Design at EPFL 1987-89 and as a Professor of Architecture and Design at ETH Zurich and at ETH Studio Basel 1999-2015. He has also been a visting professor at Harvard University and at universities in Vienna, Amstardam, and Copenhagen. **Lorenzo de Chiffre** is a freelance architect and also works as a research and teaching assistant at Vienna University of Technology. He has been working with various architectural firms before, including Carosu St. John Architects in London. **Martin Tschanzis** is an architect and lecturer for theory and history of architecture at Zurich University of Applied Sciences in Winterthur.







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