

Press information

New in the series *in DETAIL*:

Annette Hillebrandt / Petra Riegler-Floors / Anja Rosen / Johanna-Katharina Seggewies

Manual of Recycling

Buildings as sources of materials

Central Europe is richer in raw materials than commonly thought – but they are not found in the ground. Never before have there been more metals, plastics, oil-based composites or minerals in the industrialised nations. One only has to bring them back into circulation. The same goes for buildings and cities. Realising them as gigantic raw material deposits is a new approach taken by the *Manual of Recycling*.

This new book from DETAIL shows how the immense deposits of raw materials in existing buildings can be kept active. The reclaiming of building- and recyclable materials from the built urban environment requires the separation of material flows, and thus the decommissioning and reuse must already be considered during the design process through the construction itself and choice of materials employed. "Urban mining" or "urban exploration" implies achieving an efficient use of raw materials through avoidance, reduction, repair and durability, reuse and recycling. A rethinking of product design, circular economic processes and assuming responsibility of ownership, a targeted choice of materials and the ability to unmake joints and component connections belong to this shift just as much as a change in user behaviour as well as reductive practices in building culture. The instruments for these paradigm changes in construction already exist, and the necessary expert knowledge is provided by the *Manual of Recycling*. The team of authors presents strategies and potentials for eco-efficient building using local resources and analyses digital methods for the optimisation of material cycles. The second part is more focussed on construction and materials. A comprehensive detailed catalogue shows possible options for the joining of building components in respect to the overall construction and provides in-depth explanations on calculation methods and tendering aspects. And finally the wealth of details from already realised examples will inspire in the successful practical implementation of these methods.

This substantial reference book is also a plea that the city has to learn to renew itself from within. This includes its energy supply, infrastructure for mobility as well as aspects of its food supply. And it deals with the materials from which the city itself is built and which cannot be forever procured from other parts throughout the world. It is aimed at architects and engineers who strive to not only convince through aesthetic, economic and socio-cultural qualities, but who equally want to realise buildings that are sustainable and environmentally friendly.



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DETAIL

Among architects DETAIL is well-known on account of its international Review of Architecture and Construction Details. But the name DETAIL also stands for a publishing house. The *DETAIL Business Information GmbH* was founded in 1961 and is located in Munich. The editorial staff publish high-quality reference books for architects, among them the series in DETAIL, Construction Manuals, DETAIL Practice, DETAIL Engineering and best of DETAIL. More information can be found at: www.detail.de