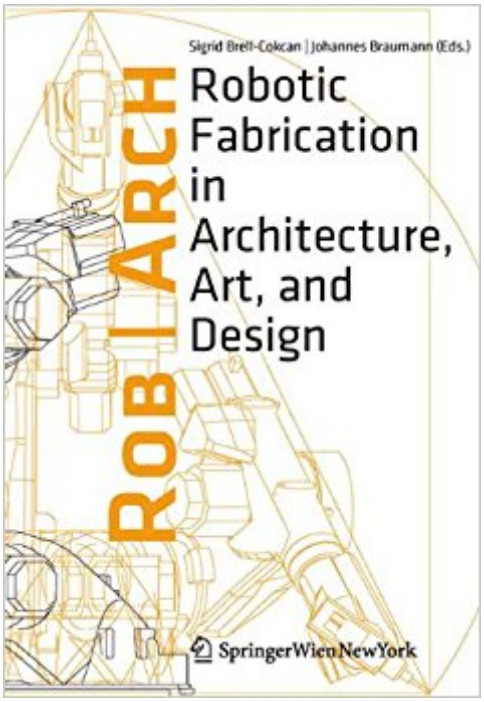
Rob|Arch 2012: Robotic Fabrication In Architecture, Art And Design



Synopsis

This volume collects about 20 contributions on the topic of robotic construction methods. It is a proceedings volume of the robarch2012 symposium and workshop, which will take place in December 2012 in Vienna. Contributions will explore the current status quo in industry, science and practitioners. The symposium will be held as a biennial event. This book is to be the first of the series, comprising the current status of robotics in architecture, art and design.

Book Information

Series: Rob Arch

Hardcover: 313 pages

Publisher: Springer; 2013 edition (November 7, 2013)

Language: English

ISBN-10: 3709114640

ISBN-13: 978-3709114643

Product Dimensions: 6.9 x 0.9 x 9.6 inches

Shipping Weight: 2.2 pounds

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Best Sellers Rank: #4,700,644 in Books (See Top 100 in Books) #97 inÃ Â Books > Engineering & Transportation > Engineering > Reference > Architecture > Annuals #1419 inÃ Â Books > Computers & Technology > Graphics & Design > User Experience & Usability #1819 inÃ Â Books > Engineering & Transportation > Engineering > Reference > Architecture > Methods & Materials

Customer Reviews

On the latest developments of robotic work processes in the fields of architectural construction

--This text refers to the Paperback edition.

Architects, artists, and designers have been fascinated by robots for many decades, from VillemardÃ¢â ¬â„¢s utopian vision of an architect building a house with robotic labor in 1910, to the design of buildings that are robots themselves, such as ArchigramÃ¢â ¬â„¢s Walking City. Today, they are again approaching the topic of robotic fabrication but this time employing a different strategy: instead of utopian proposals like ArchigramÃ¢â ¬â„¢s or the highly specialized robots that were used by JapanÃ¢â ¬â„¢s construction industry in the 1990s, the current focus of architectural robotics is on industrial robots. These robotic arms have six degrees of freedom and are widely used in industry, especially for automotive production lines. What makes robotic arms so interesting

for the creative industry is their multi-functionality: instead of having to develop specialized machines, a multifunctional robot arm can be equipped with a wide range of end-effectors, similar to a human hand using various tools. Therefore, architectural research into robotics is not so much directed at reinventing machines for architectural fabrication, but rather at reusing industrial robots as a well-established basis and adapting them for architectural purposes by developing custom software interfaces and end-effectors. By doing this, architects, artists and designers have advanced from being mere Ã¢â ¬Å“usersÃ¢â ¬Â• of robots and have successfully emerged as recognized developers and trendsetters in roboticfabrication.This book publishes the proceedings of the fi rst international conference on robotic fabrication in architecture, art, and design, Rob|Arch.Ã Â Ã Â

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