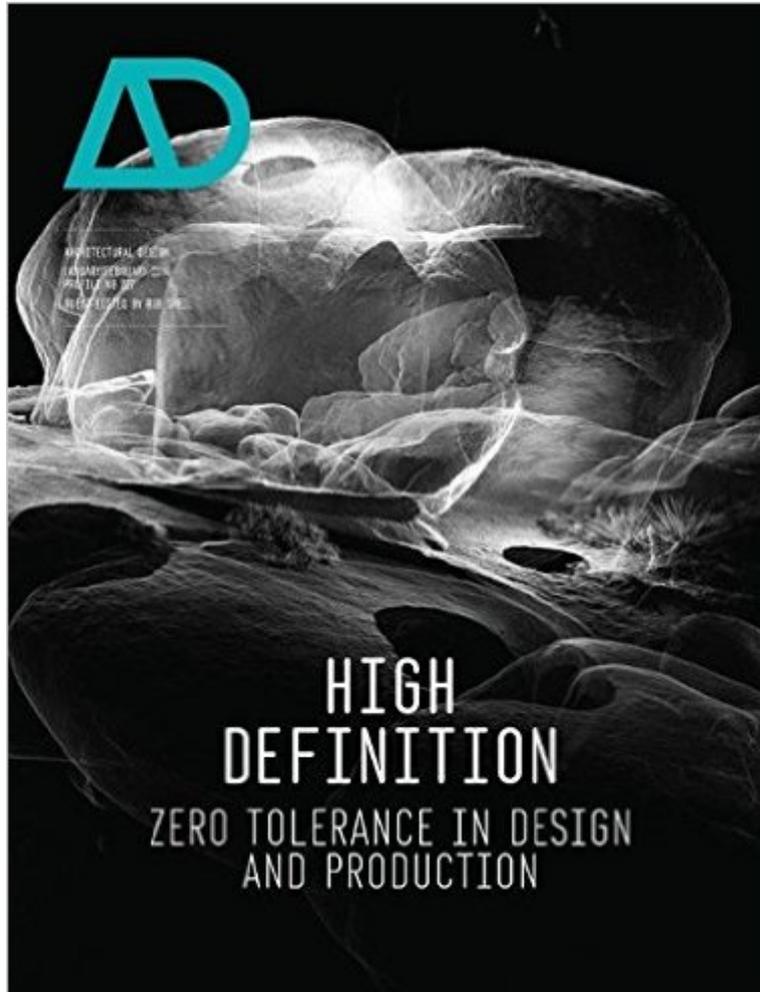# High Definition: Zero Tolerance In Design And Production

Synopsis

A pioneering title, High Definition explores the onslaught of new and highly accurate digital metrology tools in large- and small-scale 3-D scanning and 3-D modelling. Capable of measuring space to an accuracy of less than 1 mm, these tools offer unprecedented precision for the development and interrogation of design before, during and post production. Over the last decade or so, the array of designersâ ™ digital tools to propose and make their ideas have evolved significantly, but the absence of high-accuracy, zero-tolerance design production has often remained the missing piece between design and fulfilment. Innovative technologies are thus substantially recalibrating the way that designers operate in the world between the drawn and the made, having the power to transform the architectâ ™s role from that of visualiser to one that is intensely involved with the realisation of objects and buildings. High Definition will examine the capabilities of advanced technologies in design production through their impact on design theory, practice and greater levels of collaboration between design and manufacturing. It will permeate the entangled world between means and meaning and unravel a new understanding between the representation and production of architectural design. Â Contributors include: Philip Beesley, Centre for Advanced Spatial Analysis, Gehry Technologies, Ruairi Glynn, Zaha Hadid Architects, ScanLAB Projects, Territorial Agency, Skylar Tibbits, Mike Webb.

Book Information

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Customer Reviews

I made a mistake ordering this book.I thought this book was all about 3D printing which I am very interested in but it does not have a new persons focus on this at all.It looks like a well done book but

I am not qualified to really review it.

The book contains some lovely diagrams and photos that convey a sense of cutting edge methods in architecture. With case studies like Gehry Technologies building out the Fondation Louis Vuitton building in Paris. The curving metal spans evoke a design freedom and a sense of spaciousness all too often missing from standard building designs. Gehry truly had to build new and better simulations and what the text calls generative intelligence. All to handle the curved shapes implemented in glass and metal. No simple project, as the reader gets to appreciate.Another chapter takes us into the use of huge data sets of a city's functioning. So there is ESRI's CityEngine; a SimCity writ much larger and more intricate. Or University College London's work on visualising city data in near real time. This chapter does make a sweeping suggestion that within 'the next decade the mobile phone will likely be defunct, with systems such as Google Glass...' Well maybe. For that to come about, Google and its competitors will have to severely upgrade the current rudimentary Google Glass. The latter seems terribly overhyped, at least to me. And perhaps to you too.

This little book is a series of essays that are particularly well-illustrated. The essays are all focused on the employment of incredibly accurate digital metrology technology in architecture and in, well, hypothetically any process that involves the manipulation of forms in three dimensions. While I welcome a detailed discussion of these methods in practice (with some theory thrown in for good measure), this isn't so much a "book" as it is a magazine. The essays are free-standing. The worst thing that can be said about the prose here is that it has a marketing/promotional/public relations tone. There's a fine line between praising a technology or a company and hyping it, and there's more than a little hype to be found here.Bottom line: if you want an update on some inspiring examples of high definition technology right now, pick this up. If you want a larger perspective, this "book" is not for you.

This publication covers a lot of ground and deals with some very interesting topics. While it can be excessively wordy, it manages to convey some useful information. However, I felt it fell short on the technical side and some of the articles are simply lost in a blizzard of buzzwords. Aside from the written presentation, some of the graphical choices were also suspect to me. Some of the images did not come across well on paper and some of the layout choices, particularly with regard to color made it difficult to read. For a publication that seems to put an emphasis on style over substance, its

the style that makes the worst impression.

High Definition: Zero Tolerance in Design and Production The Mobility Revolution: Zero Emissions, Zero Accidents, Zero Ownership Formula One Circuits from Above: 28 Legendary Tracks in High-Definition Satellite Photography Eats, Shoots & Leaves: The Zero Tolerance Approach to Punctuation Definition of Down: My Life with Ice T & the Birth of Hip Hop Reliability of Computer Systems and Networks: Fault Tolerance, Analysis, and Design Re:ZERO, Vol. 1 - manga: -Starting Life in Another World- (Re:ZERO -Starting Life in Another World- Manga) Re:ZERO, Vol. 1: -Starting Life in Another World - light novel (Re:ZERO -Starting Life in Another World-) Design for Manufacturability: How to Use Concurrent Engineering to Rapidly Develop Low-Cost, High-Quality Products for Lean Production Television Production Handbook (Wadsworth Series in Broadcast and Production) The Production Manager's Toolkit: Successful Production Management in Theatre and Performing Arts (The Focal Press Toolkit Series) Decision Systems for Inventory Management and Production Planning (Wiley Series in Production/Operations Management) Transplant Production Systems: Proceedings of the International Symposium on Transplant Production Systems, Yokohama, Japan, 21-26 July 1992 Toyota Production System: Beyond Large-Scale Production Lean Production Simplified, Third Edition: A Plain-Language Guide to the World's Most Powerful Production System Lean Production Simplified: A Plain-Language Guide to the World's Most Powerful Production System Lean Production Simplified, Second Edition: A Plain-Language Guide to the World's Most Powerful Production System Thy Kingdom Comics: Curiously Christian drawings and writings about Jesus, tolerance, abortion, atheism, homosexuality, theology, and lots of other stuff Software Fault Tolerance Techniques and Implementation (Artech House Computing Library) Regulating Aversion: Tolerance in the Age of Identity and Empire