



# MASS-CUSTOMISED CITIES

Guest-edited  
by TOM VEREBES

# Mass Customised Cities Architectural Design Verebes

**Joo Hwa P. Bay, Steffen Lehmann**



## **Mass Customised Cities Architectural Design Verebes:**

**Mass-Customised Cities** Tom Verebes, 2015-12-07 What happens when computational design and fabrication technologies ramp up to the urban scale Though these innovative production processes are currently now largely limited to small scale design projects what will happen when they are applied to the vast scale of the 21st century world city Could new technologies enable an important shift away from mass production to increasingly bespoke and custom designed systems The introduction of standardisation and mass production processes in the 20th century saw the industrial city take on a repetitious and homogeneous quality through the duplication of component parts Today non standard bespoke systems hold out the promise of realising a distinctive urbanism characterized by the differentiation of serial production and the variation of simple parts that should lead to a more complex and compelling whole Given the current pace and rate of urbanisation in Asia the mass customization of the city is set to have imminent and far reaching practical consequences for the rest of the developing and developed world

**Brazil** Hattie Hartman, 2016-05-02 Brazil is a country of city dwellers undergoing radical transformation over 85 per cent of the country's citizens live in cities and over 40 per cent of the population live in metropolises of more than a million people Whereas previously urban growth had been ad hoc preparation for the FIFA World Cup in 12 cities across the country in 2014 and for the upcoming Olympic and Paralympic Games in Rio changed all that Several Brazilian cities have proactively invested in infrastructure and the public realm And a number of projects by international architects have heightened interest in Brazil from architects and urban practitioners abroad The failure of public authorities to meet their ambitious aspirations for the sporting mega events sparked a series of street protests across the country under the banner of the right to the city beginning in 2013 For Brazil this was an entirely new phenomenon one which has unveiled the potential for bottom up influences to effect urban change The focus of this issue though is on design projects that contribute a strong sense of place to their respective cities highlighting also the integration of landscape design in urban planning and community interventions that seek to address the enormous disparity between the lives of the country's rich and poor Contributors Ricky Burdett Thomas Deckker Gabriel Duarte Sergio Ekerman Nanda Eskes and Andr Vieira Alexandre Hepner and Silvio Soares Macedo Circe Monteiro and Luiz Carvalho Joana Carla Soares Gon alves Jaime Lerner Ana Luiza Nobre Justin McGuirk Francesco Perrotta Bosch Maria do Rocio Ros rio Fernando Serapi o Guilherme Wisnik Featured architects AECOM Biselli Katchborian Brasil Arquitetura Santiago Calatrava Studio Arthur Casas Diller Scofidio Renfro Herzog de Meuron Vigliecca Associados

**Parametricism 2.0** Patrik Schumacher, 2016-04-25 Parametricism is an avant garde architecture and design movement that has been growing and maturing over the last 15 years emerging as a remarkable global force The tendency started in architecture but now encompasses all design disciplines from urban design to fashion In architecture the style has an international following and is currently progressing beyond its experimental roots to make an impact on a broader scale with practices like Zaha Hadid Architects ZHA winning and completing large scale

architectural projects worldwide Parametricism implies that all elements and aspects of an architectural composition or product are parametrically malleable and the style owes its original unmistakable physiognomy to its unprecedented use of computational design tools and fabrication methods All design parameters are conceived as variables that allow the design to vary and adapt to the diverse complex and dynamic requirements of contemporary society Although Parametricism has been talked about and hotly debated for a number of years so far there has been no publication dedicated to Parametricism The issue is guest edited by Patrik Schumacher partner at ZHA and one of the world s most highly renowned advocates of Parametricism Contributors Philippe Block Shajay Bhooshan Mark Burry Mario Carpo Manuel DeLanda John Frazer Mark Foster Gage Enriqueta Llabres and Eduardo Rico Achim Menges Theo Spyropoulos Robert Stuart Smith Philip F Yuan Featured architects and designers Arup Mark Fornes THEVERYMANY Zaha Hadid Architects ZHA and Ross Lovegrove

**The Urbanism Reader** Stefan Al,Tom Verebes,2025-02-06 Positioning design at the center of the debate The Urbanism Reader brings together classic and contemporary readings to help designers understand the complexities of cities and urban design in the 21st century The selection of readings presented here is uniquely tailored to a design perspective for architects and urban designers balancing social issues in urbanism with a clear focus on foregrounding design as an instrument for change in cities and examining the outcomes and challenges of recent design theories design methods and technologies in the built urban environment Covering today s most urgent issues 45 texts explore key topics in urbanism from digital design technologies to smart cities from the ongoing ecological crisis to public health and the impact of Covid 19 and from emergence and informality to economic inequity in global cities Chapters cover cultural issues including diversity indigenous knowledge decolonization social justice and inclusion alongside technological developments while a final chapter speculates on the future of urbanism through readings in AI virtual reality and the frontiers of current thinking in architecture and urban design The extracts are grouped by theme each with an introduction to the historical contexts and guiding paradigms helping design students researchers and professionals to make sense of the diverse field of theory and practice in the past present and future of global urbanism

**Growing Compact** Joo Hwa P. Bay,Steffen Lehmann,2017-07-06 Growing Compact Urban Form Density and Sustainability explores and unravels the phenomena links and benefits between density compactness and the sustainability of cities It looks at the socio climatic implications of density and takes a more holistic approach to sustainable urbanism by understanding the correlations between the social economic and environmental dimensions of the city and the challenges and opportunities with density The book presents contributions from internationally well known scholars thinkers and practitioners whose theoretical and practical works address city planning urban and architectural design for density and sustainability at various levels including challenges in building resilience against climate change and natural disasters capacity and integration for growth and adaptability ageing community and security vegetation food production compact resource systems and regeneration

**Mass Customization and Design Democratization**

Branko Kolarevic, José Pinto Duarte, 2018-12-07 Parametric design and digital fabrication are enabling non designers to mass produce non standard highly differentiated products from shoes and tableware to furniture and even houses The result of these newly available mass customization tools has been a democratization of design Mass Customization and Design Democratization is the first book to address this recent phenomenon Demonstrating how the considerable potential of these tools can be realized in practice it introduces essential technologies and design approaches and provides numerous examples of the latest cutting edge work from leading design firms manufacturers and thinkers The book examines what mass customization means for architecture and the building industry and investigates its impact on the sector s most commoditized enterprise suburban housing Asking whether design democratization is viable in the current context and exploring what kind of mass customization is possible useful and desirable it poses fundamental questions about the authorship of design and the functional and aesthetic quality of products designed by non designers A highly designed book featuring over 200 color illustrations this is essential reading for professionals as well as students taking courses in digital architecture parametric design and mass customization

**2050** Chris Luebke, 2015-08-28 Envisioning a positive future through design 2050 Designing Our Tomorrow describes the ways in which architecture and design can engage with the key drivers of change and provide affirmative aspirations for a not so distant future With a focal date of 2050 this issue of AD asks when and how the design community can should and must be taking action The discussion centres on shifts in the urban environment and an established way of life in a world of depleted natural resources and climate change Featuring interviews with Paola Antonelli of MoMA and Tim Brown of IDEO it includes contributions from thought leaders such as Janine Benyus Thomas Fisher Daniel Kraft Alex McDowell Franz Oswald and Mark Watts High profile designers like FutureCitiesLab SHoP and UrbanThinkTank are featured as examples of forward thinking and innovation in the field highlighting the need for and possibility of a shift in the global perspective The discussion includes the challenges we face in creating a positive tomorrow and the solutions that architecture and design can bring to the table Despite the proliferation of global crises possibly threatening human survival our current moment provides the opportunity to write a new positive story about our future 2050 Designing Our Tomorrow describes how the design community can contribute to that vision by asserting positive aspirations for the worlds we create ourselves See how architects and designers inspire global positive change Consider architecture s role in shaping cultural outlook Learn the key drivers of change for the built environment Explore the perspectives of leading experts and designers Architects and planners over the centuries have put a stamp upon the planet through the physical manifestations of their belief structures Today s design community faces a rising wealth gap climate change shifting paradigms of nationalism and myriad other challenges 2050 Designing Our Tomorrow phrases global issues as a design problem and describes how architects and designers can rise to the challenge of creating a more positive future

*Designing the Rural* Joshua Bolchover, John Lin, Christiane Lange, 2016-08-15 The rural is not what it used to be No longer

simply a site for agricultural production for the city the relationship between the rural and urban has become much more complex Established categories such as rural urban and village city no longer hold true Rural and urban conditions have become increasingly blurred so how can we identify and distinguish their specific characteristics Where is the rural and what role does it play in an urbanised world In developing countries the countryside is a volatile and contradictory landscape legally designated rural areas look like dense slums factories intersect fields and farmers no longer farm In contrast in developed regions the rural has become a highly controlled landscape of production and consumption industrialised agriculture coexists with leisure landscapes for tourism retirement and recreation This issue of AD investigates how architects and researchers are critically engaging with the rural as an experimental field of exploration Contributors Neil Brenner Christiane Lange Charlotte Malterre Barthes Sandra Parvu Cole Roskam Grahame Shane Deane Simpson and Milica Topalovic and Bas Princen Architects Anders Abraham Joshua Bolchover and John Lin Rural Urban Framework Ambra Fabi and Giovanni Piovene Piovenefabi Rainer Hehl Stephan Petermann OMA Huang Sheng Yuan FieldOffice and Sandeep Virmani Hunnarshala

**Made by Robots** Fabio Gramazio, Matthias Kohler, 2014-05-09 Although highly ambitious and sophisticated most attempts at using robotic processes in architecture remain the exception little more than prototypes or even failures at a larger scale This is because the general approach is either to automate existing manual processes or the complete construction process However the real potential of robots remains unexploited if used merely for the execution of highly repetitive mass fabrication processes their capability for serial production of non standard elements as well as for varied construction processes is mostly wasted In order to scale up and advance the application of robotics for both prefabrication and on site construction there needs to be an understanding of the different capabilities and these should be considered right from the start of the design and planning process This issue of AD showcases the findings of the Architecture and Digital Fabrication research module at the ETH Zurich Future Cities Laboratory in Singapore directed by Fabio Gramazio and Matthias Kohler which explores the possibilities of robotic construction processes for architecture and their large scale application to the design and construction of high rise buildings Together with other contributors they also look at the far reaching transformations starting to occur within automated fabrication in terms of liberation of labour entrepreneurship the changing shape of building sites in situ fabrication and most significantly design Contributors Thomas Bock Jelle Feringa Philippe Morel Neri Oxman Antoine Picon and Fran ois Roche ETH Zurich contributors Michael Budig Norman Hack Willi Lauer and Jason Lim and Raffael Petrovic Future Cities Laboratory Volker Helm Silke Langenberg and Jan Willmann Featured entrepreneurs Greyshed Machineous Odico Formwork Robotics RoboFold and ROB Technologies

**Digital Property** Wendy W. Fok, Antoine Picon, 2016-11-07 Even more than authorship ownership is challenged by the rise of digital and computational methods of design and production These challenges are simultaneously legal ethical and economic How are new methods of fabrication and manufacture going to irreversibly change not only ways of working but

also designers ethics and their stance on ownership In his 2013 second term State of the Union address President Obama stated that 3D printing has the potential to revolutionize the way we make almost everything Nowhere will the impact of 3D printing be felt greater than in the architectural and design communities When anyone can print out an object or structure from a digital file will designers still exert the same creative rights or will they need to develop new practice and payment models As architecture becomes more collaborative with open source processes will the emphasis on signature as the basis of ownership remain relevant How will wider teams working globally be accredited and compensated This issue of AD explores this subject it features the work of designers who are developing wholly new approaches to practice by exploring means of commercialising process based products rather than objects Contributors Phil Bernstein Mark Garcia Antoine Picon Carlo Ratti and David Ruy Featured architects Francis Bitonti Marjan Colletti Wendy W Fok Panagiotis Michalatos Jose Sanchez Thibault Schwartz Aaron Sprecher Feng Xu and Philip Yuan

**Material Synthesis** Achim Menges, 2015-09-24

Material Synthesis Fusing the Physical and the Computational Guest edited by Achim Menges A new understanding of the material in architecture is fast emerging Designers are no longer conceiving of the digital realm as separate from the physical world Instead computation is being regarded as the key interface for material exploration and vice versa This represents a significant perceptual shift in which the materiality of architecture is no longer seen to be a fixed property and passive receptor of form but is transformed into an active generator of design and an adaptive agent of architectural performance In stark contrast to previous linear and mechanistic modes of fabrication and construction materialisation is now beginning to coexist with design as explorative robotic processes This represents a radical departure from both the trite modernist emphasis on truth to materials and the dismissal of materials by the previous generation of digital architects The issue features designers researchers and thinkers that are at the forefront of exploring new modes of material enquiry and its deep interrelationship with technology biology and culture Through their work which unfolds from multifaceted alliances between the fields of design engineering and natural sciences it seeks to trace the emergence of a novel material culture in architecture Architectural and engineering contributors include Sean Ahlquist Martin Bechthold Philippe Block Karola Dierichs Jan Knippers Achim Menges Neri Oxman Steffen Reichert and Tobias Schwinn Scientific and philosophical perspectives provided by Mario Carpo Manuel De Landa Neil Gershenfeld and Thomas Speck Features the design research of Harvard's Material Processes and Systems Group MIT's Mediated Matter Group and Stuttgart University's Institute for Computational Design

*Digital Cities* Neil Leach, 2009-08-31 Guest edited by Neil Leach What is the impact of digital technologies on the design and analysis of cities For the last 15 years the profound impact of computer aided techniques on architecture has been well charted From the use of standard drafting packages to the more experimental use of generative design tools and parametric modelling digital technologies have come to play a major role in architectural production But how are they helping architects and designers to operate at the urban scale And how might they be changing the way in

which we perceive and understand our cities Features some of the world's leading experimental practices such as Zaha Hadid Architects R Sie n Biothing and Xefirotarch Takes in exciting emerging practices such as moh architects kokkugia and THEVERYMANY and work by students at some of the most progressive schools such as the AA Dessau Institute of Architecture and RMIT Contributors include Michael Batty Benjamin Bratton Alain Chiaradia Manuel DeLanda Vicente Guallart and Peter Trummer

**Sustain and Develop** Jonathan D. Solomon, Joshua Bolchover, 2010-04-07 Sustain and Develop the thirteenth volume from 306090 Books investigates the contradictory yet potentially productive tension between our drive to develop and our growing realization that unregulated growth is eroding the natural ecology in which we live Sustain and Develop asks if it is still possible to meet the needs of the present without compromising the ability of future generations to meet needs of their own How can developing countries undergoing rapid urbanization processes be brought actively into the debate How can developed countries with their own postindustrial landscapes and shrinking populations adapt to a redefined global economy Sustain and Develop provides a forum to investigate the tangle of interwoven issues and relationships that hold potential answers to these questions

**Masterplanning the Adaptive City** Tom Verebes, 2013-10-08 Computational design has become widely accepted into mainstream architecture but this is the first book to advocate applying it to create adaptable masterplans for rapid urban growth urban heterogeneity through computational urbanism Practitioners and researchers here discuss ideas from the fields of architecture urbanism the natural sciences computer science economics and mathematics to find solutions for managing urban change in Asia and developing countries throughout the world Divided into four parts historical and theoretical background our current situation methodologies and prototypical practices the book includes a series of essays interviews built case studies and original research to accompany chapters written by editor Tom Verebes to give you the most comprehensive overview of this approach Essays by Marina Lathouri Jorge Fiori Jonathan Solomon Patrik Schumacher Peter Trummer and David Jason Gerber Interviews with Dana Cuff Xu Wei Guo Matthew Prior Tom Barker Su Yunsheng and Brett Steele Built case studies by Zaha Hadid Architects James Corner Field Operations XWG Studio MAD OCEAN Consultancy Network Plasma Studio Groundlab Peter Trummer Serie Architects dotA and Rocker Lange Architects

**The Routledge Companion to Ecological Design Thinking** Mitra Kanaani, 2022-08-31 This companion investigates the ways in which designers architects and planners address ecology through the built environment by integrating ecological ideas and ecological thinking into discussions of urbanism society culture and design Exploring the innovation of materials habitats landscapes and infrastructures it furthers novel ecotopian ideas and ways of living including human made settings on water in outer space and in extreme environments and climatic conditions Chapters of this extensive collection on ecotopian design are grouped under five different ecological perspectives design manifestos and ecological theories anthropocentric transformative design concepts design connectivity climatic design and social design Contributors provide plausible sustainable design ideas that



promote resiliency health and well being for all living things while taking our changing lifestyles into consideration This volume encourages creative thinking in the face of ongoing environmental damage with a view to making design decisions in the interest of the planet and its inhabitants With contributions from over 79 expert practitioners educators scientists researchers and theoreticians as well as planners architects and engineers from the U S Canada Europe and Asia this book engages theory history technology engineering and science as well as the human aspects of ecotopian design thinking and its implications for the outlook of the planet

**Planning Sustainable Cities** Spiro N. Pollalis, 2016-05-20 Planning Sustainable Cities An infrastructure based approach provides an analytical framework for urban sustainability focusing on the services and performance of infrastructure systems The book approaches infrastructure as a series of systems that function in synergy and are directly linked with urban planning This method streamlines and guides the planning process while still highlighting detail each infrastructure system is decoded in four system levels The levels organize the processes highlight connections between entities and decode the high level planning and decision making process affecting infrastructure For each system level strategic objectives of planning are determined The objectives correspond to the five focus areas of the Zofnass program Quality of life Natural World Climate and Risk Resource Allocation Leadership Developed through the Zofnass Program at the Harvard Graduate School of Design this approach integrates the key infrastructure systems of Energy Landscape Transportation Waste Water Information and Food and explores their synergies through land use planning engineering economics and policy The size and complexity of infrastructure systems means that multiple stakeholders facing their own challenges and agendas are involved in planning this book creates a common collaborative platform between public authorities planners and engineers It is an essential resource for those seeking Envision Sustainability Professionals accreditation

**Beyond the Envelope** Tom Verebes, 2024-07 A survey of 21 pioneering architectural projects at the forefront of experimentation and implementation of advanced architectural technology 21 transcribed live interviews with the architect of each project Professional photos of all projects emphasising the envelopes and the technologies used and their effects Insightful diagrams of all projects by Master of Architecture students at New York Institute of Technology Introduction by Tom Verebes PhD editor of Beyond the Envelope

**Design of Cities** Edmund N. Bacon, 1967 The major contemporary work on urban design Splendidly presented filled with thoughtful and brilliant intuitive insights The New Republic In a brilliant synthesis of words and pictures Edmund N Bacon relates historical examples to modern principles of urban planning He vividly demonstrates how the work of great architects and planners of the past can influence subsequent development and be continued by later generations By illuminating the historical background of urban design Bacon also shows us the fundamental forces and considerations that determine the form of a great city Perhaps the most significant of these are simultaneous movement systems the paths of pedestrian and vehicular traffic public and private transportation that serve as the dominant organizing force and Bacon looks at movement systems in

cities such as London Rome and New York He also stresses the importance of designing open space as well as architectural mass and discusses the impact of space color and perspective on the city dweller That the centers of cities should and can be pleasant places in which to live work and relax is illustrated by such examples as Rotterdam and Stockholm

**Urban Design: the Architecture of Towns and Cities** ,1965      **Urban Design in Western Europe** Wolfgang

Braunfels,1990-01-15 What makes a city endure and prosper In this masterful survey of a thousand years of urban architecture Wolfgang Braunfels identifies certain themes common to cities as different as Siena and London Munich and Venice Braunfels describes scores of cities classifying them as cathedral cities city states imperial cities maritime cities ideal cities those towns which planned by often absent rulers for a specific purpose failed to develop independent lives Lavishly illustrated with city plans bird s eye views early renderings and modern photographs Urban Design in Western Europe will both delight and instruct architects urban planners historians and travelers Page 4 of cover

## **Mass Customised Cities Architectural Design Verebes** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mass Customised Cities Architectural Design Verebes**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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