

Gridded Worlds: An Urban Anthology

Reuben Rose-Redwood • Liora Bigon
Editors

Gridded Worlds: An Urban Anthology

 Springer

Editors

Reuben Rose-Redwood
University of Victoria
Victoria, BC, Canada

Liora Bigon
Holon Institute of Technology
Holon, Israel

ISBN 978-3-319-76489-4 ISBN 978-3-319-76490-0 (eBook)
<https://doi.org/10.1007/978-3-319-76490-0>

Library of Congress Control Number: 2018938091

© Springer International Publishing AG, part of Springer Nature 2018

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, express or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Printed on acid-free paper

This Springer imprint is published by the registered company Springer International Publishing AG part of Springer Nature.

The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

*Reuben dedicates this book to his
grandmothers Lillian and Jewel,
and his mother Amber.*

*Liora dedicates this book to Guy
and Itush, be-ahava.*

Acknowledgments

We thank the editorial team at Springer for their support in publishing this anthology of key works on the urban grid. We are particularly grateful to our primary editor Margaret Deignan as well as editorial assistant Catalina Sava, project coordinator Karthika Menon, and project manager Sindhuja Gajendran. We also acknowledge Julian Bakker for assisting with the transcription of several chapters included in the present volume. Given the nature of this edited collection as an anthology, many of the chapters have been previously published in different scholarly outlets, which have required the securing of copyright permissions to reprint them in the current volume. We therefore acknowledge all the authors whose works are included in this anthology, particularly those who have revised their original publications specifically for the present book. The permission fees for the republication of these studies were paid for with funds from a Book Subvention Grant awarded to the lead editor by the University of Victoria, and we therefore thank the University of Victoria for its financial support.

Chapter 2 was originally published as Stanislawski, D. (1946). "The Origin and Spread of the Grid-Pattern Town." *Geographical Review*, 36(1): 105–120 (Copyright © 1946 by the American Geographical Society of New York, reproduced with permission of John Wiley & Sons, Inc.). Chapter 3 was originally published as Rose-Redwood, R. (2008). "Genealogies of the Grid: Revisiting Stanislawski's Search for the Origin of the Grid-Pattern Town." *Geographical Review*, 98(1): 42–58 (Copyright © 2008 by the American Geographical Society of New York, reproduced with permission of John Wiley & Sons, Inc.). Chapter 4 is an abridged version of Kostof, S. (1991). "The Grid." In S. Kostof, *The City Shaped: Urban Patterns and Meanings through History* (pp. 95–157). London: Little, Brown, and Co. (Copyright © 1991 by Thames and Hudson Ltd., reproduced with permission of Thames and Hudson Ltd.). Chapter 5 is a revised version of Grant, J. (2001). "The Dark Side of the Grid: Power and Urban Design." *Planning Perspectives*, 16(3): 219–241 (Copyright © 2001 by Taylor & Francis Ltd., reproduced with permission of Taylor & Francis Ltd.). Chapter 6 was originally published as Mazza, L. (2009). "Plan and Constitution: Aristotle's Hippodamus: Toward an 'Ostensive' Definition of Spatial Planning." *Town Planning Review*, 80(2): 113–141 (Copyright © 2009 by Liverpool

University Press, reproduced with permission of Liverpool University Press). Chapter 7 is a revised version of Zhu, J. (2004). "City Plan as Ideology." In J. Zhu, *Chinese Spatial Strategies: Imperial Beijing, 1420–1911* (pp. 28–44). London: RoutledgeCurzon (Copyright © 2004 by Jianfei Zhu, reproduced with permission of Taylor & Francis Group).

Chapter 8 was originally published as Stelter, G. (1993). "Military Considerations and Colonial Town Planning: France and New France in the Seventeenth Century." In R. Bennett (Ed.), *Settlements in the Americas: Cross-Cultural Perspectives* (pp. 210–237) (Copyright © 1993 by the Associated University Presses, reproduced with permission of Associated University Presses). Chapter 9 is an abridged version of Low, S. (1995). "Indigenous Architecture and the Spanish American Plaza in Mesoamerica and the Caribbean." *American Anthropologist*, 97(4): 748–762 (Copyright © 1995 by the American Anthropological Association, reproduced with permission of American Anthropological Association). Chapter 10 will be published as Bigon, L. and Hart, T. (2018). "Beneath the City's Grid: Vernacular and (Post)colonial Planning Interactions in Dakar, Senegal." *Journal of Historical Geography*, 59: 52–67 (Copyright © 2018 by Elsevier. Reproduced with permission of Elsevier). Chapter 11 was originally published as Sennett, R. (1990). "American Grids: The Grid Plan and the Protestant Ethic." *International Social Science Journal*, 42(3): 269–285 (Copyright © 1990 by Blackwell Publishing Ltd., reproduced with permission of Blackwell Publishing Ltd.). Chapter 12 was originally published as Rose-Redwood, R. (2011). "Mythologies of the Grid in the Empire City, 1811–2011." *Geographical Review*, 101(3): 396–413 (Copyright © 2011 by the American Geographical Society of New York, reproduced with permission of John Wiley & Sons, Inc.). Chapter 13 is an abridged version of Brown, K. (2001). "Gridded Lives: Why Kazakhstan and Montana are Nearly the Same Place." *American Historical Review*, 106(1): 17–48. (Copyright © 2001 by Oxford University Press, reproduced with permission of Oxford University Press). Chapter 14 is an abridged version of Geyh, P. (2009). "Urban Grids and Urban Imaginary: City to Cyberspace, Cyberspace to City." In P. Geyh, *Cities, Citizens, and Technologies: Urban Life and Postmodernity* (pp. 63–91). New York: Routledge (Copyright © 2009 by Taylor & Francis, reproduced with permission of Taylor & Francis).

Contents

1	Gridded Spaces, Gridded Worlds	1
	Reuben Rose-Redwood and Liora Bigon	
2	The Origin and Spread of the Grid-Pattern Town	21
	Dan Stanislawski	
3	Genealogies of the Grid: Revisiting Stanislawski’s Search for the Origin of the Grid-Pattern Town	37
	Reuben Rose-Redwood	
4	The City Shaped: The Grid	55
	Spiro Kostof	
5	The Dark Side of the Grid Revisited: Power and Urban Design	75
	Jill L. Grant	
6	Plan and Constitution: Aristotle’s Hippodamus: Towards an “Ostensive” Definition of Spatial Planning	101
	Luigi Mazza	
7	City Plan as Ideology: Reading the Configuration of Beijing in Ming-Qing China	121
	Jianfei Zhu	
8	Military Considerations and Colonial Town Planning: France and New France in the Seventeenth Century	141
	Gilbert A. Stelter	
9	Indigenous Architecture and the Spanish American Plaza in Mesoamerica and the Caribbean	155
	Setha M. Low	

10	Beneath the City's Grid: Vernacular and (Post)colonial Planning Interactions in Dakar, Senegal.	177
	Liora Bigon and Thomas Hart	
11	American Cities: The Grid Plan and the Protestant Ethic	207
	Richard Sennett	
12	Mythologies of the Grid in the Empire City, 1811–2011	227
	Reuben Rose-Redwood	
13	Gridded Lives: Why Kazakhstan and Montana are Nearly the Same Place.	245
	Kate Brown	
14	Urban Grids and Urban Imaginary: City to Cyberspace, Cyberspace to City	263
	Paula Geyh	
	Index.	281

List of Contributors

Liora Bigon is a Senior Lecturer in the General Studies Department at Holon Institute of Technology (HIT) and a Research Fellow at the Truman Research Institute for the Advancement of Peace at the Hebrew University of Jerusalem. Her research interests include urban and planning histories of Europe and Africa, and she regularly pursues fieldwork in Sub-Saharan African countries and has published over seventy peer-reviewed articles, encyclopedic entries, and books, including: *A History of Urban Planning in Two West African Colonial Capitals: Residential Segregation in British Lagos and French Dakar, 1850–1930* (2009), *Garden Cities and Colonial Planning: Transnationality and Urban Ideas in Africa and Palestine* (2014, with Yossi Katz), and *French Colonial Dakar: The Morphogenesis of an African Regional Capital* (2016).

Kate Brown is a Professor of History at the University of Maryland, Baltimore County. Her research interests include ethnic borderlands, atomic cities, and dystopias. She is the recipient of numerous awards, including a Guggenheim Fellowship, and is the author of *A Biography of No Place: From Ethnic Borderland to Soviet Heartland* (2004), *Plutopia: Nuclear Families in Atomic Cities and the Great Soviet and American Plutonium Disasters* (2013), and *Dispatches from Dystopia: Histories of Places Not Yet Forgotten* (2015).

Paula Geyh is an Associate Professor of English at Yeshiva University. Her research interests include twentieth-century American literature, postmodern American and European fiction, cultural theory, and film studies. She is the author and editor of several books, including: *Postmodern American Fiction: A Norton Anthology* (1998, with Fred Leebron and Andrew Levy); *Cities, Citizens, and Technologies: Urban Life and Postmodernity* (2009); and *The Cambridge Companion to Postmodern American Fiction* (2015).

Jill L. Grant is a Professor Emeritus in the Faculty of Architecture and Planning at Dalhousie University. Her research interests include planning theory and practice, new urbanism, sustainable cities, and creative cities. She is the author and editor of

numerous books, including: *The Drama of Democracy: Contention and Dispute in Community Planning* (1994); *Towards Sustainable Cities: East Asian, North American and European Perspectives on Managing Urban Regions* (2004, with André Sorensen and Peter Marcotullio); *Planning the Good Community: New Urbanism in Theory and Practice* (2006); *A Reader in Canadian Planning: Linking Theory and Practice* (2008); and *Seeking Talent for Creative Cities: The Social Dynamics of Innovation* (2014).

Thomas Hart is a retired American diplomat and has pursued a second career in heritage preservation, working as Executive Director of the Historic Fredericksburg Foundation in Virginia and on conservation of the historic rooms of the Old Executive Office Building next to the White House. He has published several articles on heritage conservation topics in the US, Kenya, Suriname, and Senegal. Hart was educated at Princeton, Columbia, and Oxford, and has an MA in Historic Preservation from Goucher College. He currently lives in Paris.

Spiro Kostof (1936–1991) was a Professor of Architectural History at the University of California, Berkeley. He is the author of various books that have become classics in the field of architectural history and the history of urban planning, including: *Architect: Chapters in the History of the Profession* (1978), *A History of Architecture: Settings and Rituals* (1985), *The City Shaped: Urban Patterns and Meanings Through History* (1991), and *The City Assembled: The Elements of Urban Form Through History* (1992).

Setha M. Low is a Professor of Anthropology at the Graduate Center of the City University of New York. She has written extensively on the politics of public space, gated communities, and urban parks. Her books include: *On the Plaza: The Politics of Public Space and Culture* (2000); *The Anthropology of Space and Place: Locating Culture* (2003, with Denise Lawrence-Zuniga); *Behind the Gates: Life, Security and the Pursuit of Happiness in Fortress America* (2004); *Rethinking Urban Parks: Public Space and Cultural Diversity* (2005, with Dana Taplin and Suzanne Scheld); *The Politics of Public Space* (2006, with Neil Smith); and *The People, Place and Space Reader* (2014, with Jen Jack Gieseking, William Mangold, Cindi Katz, and Susan Saegert).

Luigi Mazza is a Professor Emeritus of Planning in the Dipartimento di Architettura e Pianificazione, Politecnico di Milano. He is the author of numerous journal articles and book chapters on Italian cities, modern urbanism in Europe, and the ethics of urban planning.

Reuben Rose-Redwood is an Associate Professor of Geography and Chair of the Committee for Urban Studies at the University of Victoria in British Columbia, Canada. His research focuses on the cultural politics of place, the spatial organization of cities, and the historical geographies of the geo-coded world. He is the co-editor of *Performativity, Politics, and the Production of Social Space* (2014, with

Michael Glass) and *The Political Life of Urban Streetscapes: Naming, Politics, and Place* (2018, with Derek Alderman and Maoz Azaryahu), and has published in a broad range of scholarly journals, including *Progress in Human Geography*, *Social & Cultural Geography*, *Urban History*, and the *Annals of the American Association of Geographers*. His work on the historical geography of New York's grid street plan has also been featured in various popular media outlets, such as the Discovery Channel, History Channel, and *New York Times*.

Richard Sennett is a Professor of the Humanities at New York University and a Professor of Sociology at the London School of Economics. His research explores the intersections of culture, social life, and the history of urbanism. He is the author of numerous influential books, including: *The Fall of Public Man* (1977), *The Conscience of the Eye: The Design and Social Life of Cities* (1991), *Flesh and Stone: The Body and the City in Western Civilization* (1994), *The Culture of the New Capitalism* (2006), and *Together: The Rituals, Pleasure, and Politics of Cooperation* (2012), among others.

Dan Stanislawski (1903–1997) was a Professor of Geography at several universities over the course of his career, including the University of Texas and the University of Arizona. His research interests focused on the historical geography of Portugal and Latin America as well as the origin and diffusion of the grid-pattern town.

Gilbert A. Stelter is a Professor Emeritus of History at the University of Guelph. His research interests focus on the history of town planning and architecture in Canada. He is the author and editor of a number of books on Canadian urban development, including: *Shaping the Urban Landscape: Aspects of the Canadian City-Building Process* (1984), *Power and Place: Canadian Urban Development in the North American Context* (1986), *Guelph and Wellington County: An Annotated Bibliography* (1988), and *Cities and Urbanization: Canadian Historical Perspectives* (1990).

Jianfei Zhu is a Professor in the Faculty of Architecture, Building, and Planning at the University of Melbourne. His research examines the political dimensions of architecture and the urban built environment in China. He is the author of *Chinese Spatial Strategies: Imperial Beijing* (2004) and *Architecture of Modern China: A Historical Critique* (2009) as well as the editor of *Sixty Years of Chinese Architecture (1949–2009): History, Theory and Criticism* (2009).

List of Figures

Fig. 5.1 Roman society masked its inherent hierarchy as its army planted “egalitarian” grids through the empire (as in this example of Timgad in Africa). 81

Fig. 5.2 As the shogunate sought to consolidate its hold over a reunited Japan, it planned castle towns (like this one in Nagoya) where the size and position of blocks reflected the inhabitants’ positions in society. 82

Fig. 5.3 The closed grid for Kahun, Egypt, illustrates hierarchy and segregation 85

Fig. 5.4 In cities like Chang’an the hiercharical grid of the built form reflects structural inequalities within the civilization 86

Fig. 5.5 The ancient Greek city of Miletos (in modern Turkey) featured a comprehensive grid of equal-sized blocks 90

Fig. 5.6 Philadelphia, with its axial avenues and straight-forward grid, became something of a model for American urban form 92

Fig 5.7 With the rise of New Urbanism, some suburbs, like this one in East Riverside, Windsor (Canada), show growth along grid layouts. 95

Fig 7.1 Plan of Beijing in the Ming and Qing dynasties (1553-1750) (Adapted from Dunzhen, L. [1980]. *Zhongguo Gudai Jianzhushi*. Beijing: Zhongguo Jianzhu Gongye Chubanshe, p. 280) 124

Fig 7.2 Plan of the Forbidden City and its immediate surroundings (Adapted from Dunzhen, L. [1980]. *Zhongguo Gudai Jianzhushi*. Beijing: Zhongguo Jianzhu Gongye Chubanshe, pp. 282-3). 126

Fig 7.3 Planning scheme for an imperial capital according to *Kaogongji* (*Kaogongji*, collected in *Zhou Li* [202 BCE-9 CE at latest]). 127

Fig 10.1 Faidherbe’s map of pre-colonial Ndakarou in 1853 entitled “The village of Dakar” (redrawn by the authors according to the original held in ANOM). 184

Fig 10.2 Part of the 1863 version of Pinet-Laprade’s master-plan for Dakar (redrawn by the authors according the original held in ANOM) . . . 185

Fig 10.3 Metropolitan Dakar with a focus on the Plateau and Médina quarters against the background of Dakar’s first master-plan (map made by authors). 187

Fig 10.4 The location of the twelve Lebou *péncs* today in the old city centre (map made by authors) 189

Fig 10.5 Exemplary mapping of nine of the twelve Lebou *péncs* in the Plateau-Médina area (map made by L. Bigon and E. Ross) 196

Fig 10.6 Mbott, the mosque entry area with its internal large tree (authors’ photo) 198

Fig 10.7 Kaye Findiew, an inside glance towards the *Pénc*’s mosque and baobab tree, with the little empty space that was still left over (authors’ photo) 199

Fig 10.8 Mbaakeunda’s *Pénc* Office (authors’ photo) 200

Fig 10.9 Kaye Ousmane Diène: Mosque and public square that houses a morgue, large tree and Koranic school, surrounded by buildings belonging to descendants of the *pénc*. Those with red-tile roofs date from the post-1914 displacement period (authors’ photo) 201

Fig 12.1 The Commissioners’ Plan of 1811, surveyed by John Randel Jr. and published by William Bridges (reproduced courtesy of the Library of Congress) 229

Fig 12.2 Simeon De Witt’s illustration of the means by which to “give substance and visibility to those aerial shapes” produced through the lens of Cartesian linear perspective (De Witt 1813, 78) 237

Fig 12.3 Simeon De Witt’s “wonderful system” materialized, a hypothetical utilization of Cartesian perspectivalism to remodel the world (De Witt 1813, 79) 238

Fig 12.4 Manhattan’s landscape as Cartesian space (photograph by the author, 2001) 240

List of Tables

Table 5.1 Approaches to power 77
Table 5.2 Possible examples of approaches to the grid. 79