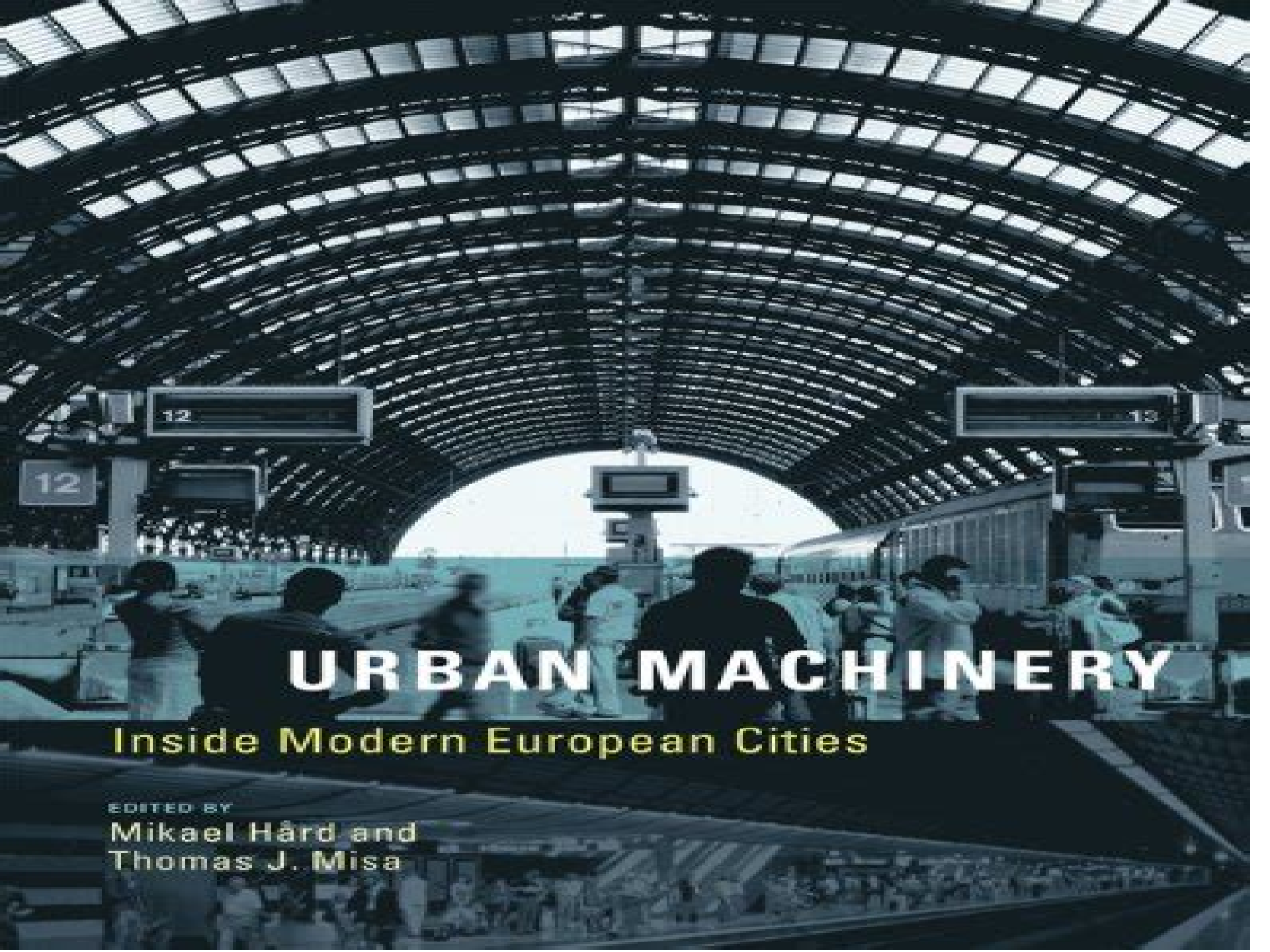




URBAN MACHINERY

Inside Modern European Cities

EDITED BY

Mikael Hård and
Thomas J. Misa

Urban Machinery Inside Modern European Cities Inside Technology

Olivier Coutard, Jonathan Rutherford



Urban Machinery Inside Modern European Cities Inside Technology:

Urban Machinery Mikael Hård, Thomas J. Misa, 2008 *Urban Machinery* investigates the technological dimension of modern European cities vividly describing the most dramatic changes in the urban environment over the last century and a half. Written by leading scholars from the history of technology, urban history, sociology, and science, technology, and society, the book views the European city as a complex construct entangled with technology. The chapters examine the increasing similarity of modern cities and their technical infrastructures, including communication, energy, industrial, and transportation systems, and the resulting tension between homogenization and cultural differentiation. The contributors emphasize the concept of circulation, the process by which architectural ideas, urban planning principles, engineering concepts, and societal models spread across Europe as well as from the United States to Europe. They also examine the parallel process of appropriation, how these systems and practices have been adapted to prevailing institutional structures and cultural preferences. *Urban Machinery* with contributions by scholars from eight countries and more than thirty illustrations, many of them rare photographs never published before, includes studies from northern and southern and from eastern and western Europe and also discusses how European cities were viewed from the periphery: modernizing Turkey and from the United States. Contributors: Hans Buiter, Paolo Capuzzo, Noyan Din, Kal Cornelis, Disco P, I Germuska, Mikael Hård, Martina Heiler, Dagmara Jajęśniak, Quast, Andrew Jamison, Per Lundin, Thomas J. Misa, Dieter Schott, Marcus Stippak. Mikael Hård is Professor of History at Darmstadt University of Technology. His books include *The Intellectual Appropriation of Technology: Discourses on Modernity, 1900-1939*, coedited with Andrew Jamison, MIT Press, 1998. Thomas J. Misa is ERA Land Grant Professor of the History of Technology at the University of Minnesota, where he directs the Charles Babbage Institute. His books include *Modernity and Technology*, coedited with Philip Brey and Andrew Feenberg, MIT Press, 2003.

Fascist Pigs Tiago Saraiva, 2018-08-28. How the breeding of new animals and plants was central to fascist regimes in Italy, Portugal, and Germany and to their imperial expansion. In the fascist regimes of Mussolini's Italy, Salazar's Portugal, and Hitler's Germany, the first mass mobilizations involved wheat engineered to take advantage of chemical fertilizers, potatoes resistant to late blight, and pigs that thrived on national produce. Food independence was an early goal of fascism, indeed, as Tiago Saraiva writes in *Fascist Pigs*, fascists were obsessed with projects to feed the national body from the national soil. Saraiva shows how such technoscientific organisms, as specially bred wheat and pigs, became important elements in the institutionalization and expansion of fascist regimes. The pigs, the potatoes, and the wheat embodied fascism. In Nazi Germany, only plants and animals conforming to the new national standards would be allowed to reproduce. Pigs that didn't efficiently convert German-grown potatoes into pork and lard were eliminated. Saraiva describes national campaigns that intertwined the work of geneticists with new state bureaucracies, discusses fascist empires considering forced labor on coffee, rubber, and cotton in Ethiopia, Mozambique, and Eastern Europe, and explores fascist genocides following Karakul sheep from a laboratory in Germany to

Eastern Europe Libya Ethiopia and Angola Saraiva's highly original account the first systematic study of the relation between science and fascism argues that the back to the land aspect of fascism should be understood as a modernist experiment involving geneticists and their organisms mass propaganda overgrown bureaucracy and violent colonialism **Power Lines**

Jennifer L. Lieberman, 2017-07-14 How electricity became a metaphor for modernity in the United States inspiring authors from Mark Twain to Ralph Ellison At the turn of the twentieth century electricity emerged as a metaphor for modernity Writers from Mark Twain to Ralph Ellison grappled with the idea of electricity as both life force illumination and death spark electrocution The idea that electrification created exclusively modern experiences took hold of Americans' imaginations whether they welcomed or feared its adoption In *Power Lines* Jennifer Lieberman examines the apparently incompatible notions of electricity that coexisted in the American imagination tracing how electricity became a common though multifarious symbol for modern life Lieberman examines a series of moments of technical change when electricity accrued new social meanings plotting both power lines and the power of narrative lines in American life and literature While discussing the social construction of electrical systems she offers a new interpretation of Twain's use of electricity as an organizing metaphor in *A Connecticut Yankee in King Arthur's Court* describes the rhetoric surrounding the invention of electric execution analyzes Charlotte Perkins Gilman's call for human connection in her utopian writing and in her little known *Human Work* considers the theme of electrical interconnection in Jack London's work and shows how Ralph Ellison and Louis Mumford continued the literary tradition of electrical metaphor Electrical power was a distinctive concept in American literary cultural and technological histories For this reason narratives about electricity were particularly evocative Bridging the realistic and the romantic the historical and the fantastic these stories guide us to ask new questions about our enduring fascination with electricity and all it came to represent Nature-Made Economy Kristin Asdal, Tone

Huse, 2023-10-17 An exploration of the economization of the ocean through the small modifications that enable great transformations of nature The ocean is the site of an ongoing transformation that is aimed at creating new economic opportunities and prosperity In *Nature Made Economy* Kristin Asdal and Tone Huse explore how the ocean has been harnessed to become a space of capital investment and innovation and how living nature is wrested into the economy even as nature in turn resists adapts to or changes the economy The authors' innovative methodological and conceptual approaches examine the economy by focusing on surprising and numerous little tools such as maps and policy documents quality patrols and dietary requirements for the enhancement of species biological propensities that value direct reorder accomplish and sometimes fail to serve our ends but also add up to great change Throughout *Nature Made Economy* Asdal and Huse follow one species the Atlantic cod and explore how it is subjected to different versions of economization Taking this species as a point of departure they then provide novel analyses of the innovation economy the architecture of markets the settling of prices and more revealing how the ocean is rendered a space of intense economic exploitation Through their analysis the

authors develop a distinct theoretical approach and conceptual vocabulary for studying nature economy relations Nature Made Economy is a significant contribution to the broad field of STS and social studies of markets as well as to studies of the Anthropocene the environment and human animal relations *The Squares* Cyrus C. M. Mody,2022-07-12 When ungroovy scientists did groovy science how non activist scientists and engineers adapted their work to a rapidly changing social and political landscape In *The Squares* Cyrus Mody shows how between the late 1960s and the early 1980s some scientists and engineers who did not consider themselves activists New Leftists or members of the counterculture accommodated their work to the rapidly changing social and political landscape of the time These square scientists Mody shows began to do many of the things that the counterculture urged turn away from military industrial funding become more interdisciplinary and focus their research on solving problems of civil society During the period Mody calls the long 1970s ungroovy scientists were doing groovy science Mody offers a series of case studies of some of these collective efforts by non activist scientists to use their technical knowledge for the good of society He considers the region around Santa Barbara and the interplay of public universities think tanks established firms new companies philanthropies and social movement organizations He looks at Stanford University s transition from Cold War science to commercialized technoscience NASA s search for a post Apollo mission the unsuccessful foray into solar energy by Nobel laureate Jack Kilby the civilianization of the US semiconductor industry and systems engineer Arthur D Hall s ill fated promotion of automated agriculture *Politics of Urban Knowledge* Bert De Munck,Jens Lachmund,2023-03-23 This book uses politics of urban knowledge as a lens to understand how professionals administrations scholars and social movements have surveyed evaluated and theorized the city identified problems and shaped and legitimized practical interventions in planning and administration Urbanization has been accompanied and partly shaped by the formation of the city as a distinct domain of knowledge This volume uses politics of urban knowledge as a lens to develop a new perspective on urban history and urban planning history Through case studies of mainly 19th and 20th century examples the book demonstrates that urban knowledge is not simply a neutral means to represent cities as pre existing entities but rather the outcome of historically contingent processes and practices of urban actors addressing urban issues and the power relations in which they are embedded It shows how urban knowledge making has reshaped the categories rationales and techniques through which urban spaces were produced governed and contested and how the knowledge concerned became performative of newly emerging urban orders The volume will be of interest to scholars and students in the field of urban history and urban studies as well as the history of technology science and knowledge and of science studies *Bad Call* Harry Collins,Robert Evans,Christopher Higgins,2017-09-01 How technologies can get it wrong in sports and what the consequences are referees undermined fans heartbroken and the illusion of perfect accuracy maintained Good call or bad call referees and umpires have always had the final say in sports Bad calls are more visible plays are televised backward and forward and in slow motion New technologies the Hawk Eye system used in tennis

and cricket for example and the goal line technology used in English football introduced to correct bad calls sometimes get it right and sometimes get it wrong but always undermine the authority of referees and umpires Bad Call looks at the technologies used to make refereeing decisions in sports analyzes them in action and explains the consequences Used well technologies can help referees reach the right decision and deliver justice for fans a fair match in which the best team wins Used poorly however decision making technologies pass off statements of probability as perfect accuracy and perpetuate a mythology of infallibility The authors re analyze three seasons of play in English Premier League football and discover that goal line technology was irrelevant so many crucial wrong decisions were made that different teams should have won the Premiership advanced to the Champions League and been relegated Simple video replay could have prevented most of these bad calls Major League baseball learned this lesson introducing expanded replay after a bad call cost Detroit Tigers pitcher Armando Galarraga a perfect game What matters in sports is not computer generated projections of ball position but what is seen by the human eye reconciling what the sports fan sees and what the game official sees *The Unreliable Nation* Edward Jones-Imhotep, 2025-03-18 An examination of how technological failures defined nature and national identity in Cold War Canada Throughout the modern period nations defined themselves through the relationship between nature and machines Many cast themselves as a triumph of technology over the forces of climate geography and environment Some however crafted a powerful alternative identity they defined themselves not through the triumph of machines over nature but through technological failures and the distinctive natural orders that caused them In *The Unreliable Nation* Edward Jones Imhotep examines one instance in this larger history the Cold War era project to extend reliable radio communications to the remote and strategically sensitive Canadian North He argues that particularly at moments when countries viewed themselves as marginal or threatened the identity of the modern nation emerged as a scientifically articulated relationship between distinctive natural phenomena and the problematic behaviors of complex groups of machines Drawing on previously unpublished archival documents and recently declassified materials Jones Imhotep shows how Canadian defense scientists elaborated a distinctive Northern natural order of violent ionospheric storms and auroral displays and linked it to a machinic order of severe and widespread radio disruptions throughout the country Tracking their efforts through scientific images experimental satellites clandestine maps and machine architectures he argues that these scientists naturalized Canada s technological vulnerabilities as part of a program to reimagine the postwar nation The real and potential failures of machines came to define Canada its hostile Northern nature its cultural anxieties and its geo political vulnerabilities during the early Cold War Jones Imhotep s study illustrates the surprising role of technological failures in shaping contemporary understandings of both nature and nation [Routledge Handbook of Urban Water Governance](#) Thomas Bolognesi, Francisco Silva Pinto, Megan Farrelly, 2022-09-01 This handbook provides a comprehensive state of the art overview of urban water governance Of the many growing challenges presented by rapid urbanization water governance is a critical one and while

urban water governance is now regarded as a critical field of research the literature is fragmented For the first time this handbook brings together urban water governance research containing interdisciplinary contributions from established and emerging scholars practitioners and policymakers It addresses the key questions of how urban water governance works how is it shaped and what the impacts are The handbook s structure offers a progressive entry into the complexity of urban water governance Starting with technical dimensions the handbook addresses supply and demand wastewater and sanitation It then considers regulation and economic factors examining water utilities and services Political processes and the actors involved are addressed and the handbook finishes with a part focusing on governance and sustainability where chapters address critically important topics such as access to water water safety and water security This handbook is essential reading for students scholars and professionals interested in urban water governance urban studies and water resource management and sustainability more broadly

Beyond the Networked City Olivier Coutard,Jonathan Rutherford,2015-12-14 Cities around the world are undergoing profound changes In this global era we live in a world of rising knowledge economies digital technologies and awareness of environmental issues The so called modern infrastructural ideal of spatially and socially ubiquitous centrally governed infrastructures providing exclusive homogeneous services over extensive areas has been the standard of reference for the provision of basic essential services such as water and energy supply This book argues that after decades of undisputed domination this ideal is being increasingly questioned and that the network ideology that supports it may be waning In order to begin exploring the highly diverse fluid and unstable landscapes emerging beyond the networked city this book identifies dynamics through which a break with previous configurations has been operated and new brittle zones of socio technical controversy through which urban infrastructure and its wider meaning are being negotiated and fought over It uncovers across a diverse set of urban contexts new ways in which processes of urbanization and infrastructure production are being combined with crucial sociopolitical implications through shifting political economies of infrastructure which rework resource distribution and value creation through new infrastructural spaces and territorialities which rebundle socio technical systems for particular interests and claims and through changing offsets between individual and collective appropriation experience and mobilization of infrastructure With contributions from leading authorities in the field and drawing on theoretical advances and original empirical material this book is a major contribution to an ongoing infrastructural turn in urban studies and will be of interest to all those concerned by the diverse forms and contested outcomes of contemporary urban change across North and South

A U-Turn to the Future Martin Emanuel, Frank Schipper, Ruth Oldenziel, 2020-02-03 From local bike sharing initiatives to overhauls of transport infrastructure mobility is one of the most important areas in which modern cities are trying to realize a more sustainable future Yet even as politicians and planners look ahead there remain critical insights to be gleaned from the history of urban mobility and the unsustainable practices that still impact our everyday lives United by their pursuit of a usable past the studies in this interdisciplinary

collection consider the ecological social and economic aspects of urban mobility showing how historical inquiry can make both conceptual and practical contributions to the projects of sustainability and urban renewal *Innovation in India* Shyama V. Ramani, 2014-07-14 Examines the evolution of sectoral system of innovation in industries that are important to India's economic development

Cosmopolitan Commons Cornelis Disco, Eda Kranakis, 2013-06-07 A new approach in commons theory to understand the interactions of technology society and nature supported by case studies of new transnational European commons With the advent of modernity the sharing of resources and infrastructures rapidly expanded beyond local communities into regional national and even transnational space nowhere as visibly as in Europe with its small scale political divisions This volume views these shared resource spaces as the seedbeds of a new generation of technology rich bureaucratic and transnational commons Drawing on the theory of cosmopolitanism which seeks to model the dynamics of an increasingly interdependent world and on the tradition of commons scholarship inspired by the late Elinor Ostrom the book develops a new theory of cosmopolitan commons that provides a framework for merging the study of technology with such issues as risk moral order and sustainability at levels beyond the nation state After laying out the theoretical framework the book presents case studies that explore the empirical nuances airspace as transport commons radio broadcasting hydropower weather forecasting and genetic diversity as information commons transboundary air pollution and two capstone studies of interlinked temporally layered commons one on overlapping commons within the North Sea for freight fishing and fossil fuels and one on commons for transport salmon fishing and clean water in the Rhine

Contributors H kon With Andersen Nil Disco Paul N Edwards Arne Kaijser Eda Kranakis Kristiina Korjonen Kuusipuro Tiago Saraiva Nina Wormbs

Beyond the Lab and the Field Eike-Christian Heine, Martin Meiske, 2022-04-19 Beyond the Lab and the Field analyzes infrastructures as intense sites of knowledge production in the Americas Europe and Asia since the late nineteenth century Moving beyond classical places known for yielding scientific knowledge chapters in this volume explore how the construction and maintenance of canals highways dams irrigation schemes the oil industry and logistic networks intersected with the creation of know how and expertise Referred to by the authors as scientific bonanzas such intersections reveal opportunities for great wealth but also distress and misfortune This volume explores how innovative technologies provided research opportunities for scientists and engineers as they relied on expertise to operate which resulted in enormous profits for some But like the history of any gold rush the history of infrastructure also reveals how technologies of modernity transformed nature disrupting communities and destroying the local environment Focusing not on the victory march of science and technology but on ambivalent change contributors consider the role of infrastructures for ecology geology archaeology soil science engineering ethnography heritage and polar exploration Together they also examine largely overlooked perspectives on modernity the reliance of infrastructure on knowledge and infrastructures as places and occasions that inspired a greater understanding of the natural world and the technologically made environment

Remaking Berlin Timothy Moss, 2020-09-29 An examination of Berlin's turbulent history through the lens of its water and energy infrastructures In *Remaking Berlin* Timothy Moss takes a novel perspective on Berlin's turbulent twentieth century history examining it through the lens of its water and energy infrastructures He shows that through a century of changing regimes geopolitical interventions and socioeconomic volatility Berlin's networked urban infrastructures have acted as medium and manifestation of municipal national and international politics and policies Moss traces the coevolution of Berlin and its infrastructure systems from the creation of Greater Berlin in 1920 to remunicipalization of services in 2020 encompassing democratic fascist and socialist regimes *Materializing Identities in Socialist and Post-Socialist Cities* Jaroslav Ira, Jiří Janáč, 2017 This volume deals with the materialization of identity in urban space Urban spaces played an important role in the formation of national identities in post socialist successor states whereas the articulation of national identities markedly affected the appearance of the post socialist cities Opened by an overview of the research on post socialist cities in recent urban history the book traces the post socialist intertwining of space and identities in case studies that include Astana and Almaty Chisinau and Tiraspol and Skopje while also linking it to the socialist urbanism exemplified by the case study on postwar Minsk **Handbook of Infrastructures and Cities** Olivier Coutard, Daniel Florentin, 2024-04-12 Contributing towards a thriving research area this comprehensive Handbook presents a broad discussion of infrastructure as social phenomena It compiles diverse perspectives to delineate the current infrastructural turn and assess policy and research challenges relating to contemporary forms of infrastructural development **Staging Authority** Eva Giloi, Martin Kohlrausch, Heikki Lempa, Heidi Mehrkens, Philipp Nielsen, Kevin Rogan, 2022-10-24 *Staging Authority* Presentation and Power in Nineteenth Century Europe is a comprehensive handbook on how the presentation embodiment and performance of authority changed in the long nineteenth century It focuses on the diversification of authority what new forms and expressions of authority arose in that critical century how traditional authority figures responded and adapted to those changes and how the public increasingly participated in constructing and validating authority It pays particular attention to how spaces were transformed to offer new possibilities for the presentation of authority and how the mediatization of presence affected traditional authority The handbook's fourteen chapters draw on innovative methodologies in cultural history and the aligned fields of the history of emotions urban geography persona studies gender studies media studies and sound studies *Emerging Urban Spaces* Philipp Horn, Paola Alfaro d'Alencon, Ana Claudia Duarte Cardoso, 2018-02-27 This edited collection critically discusses the relevance of and the potential for identifying conceptual common ground between dominant urban theory projects namely Neo Marxian accounts on planetary urbanization and alternative Southern post colonial and post structuralist projects Its main objective is to combine different urban knowledge to support and inspire an integrative research approach and a conceptual vocabulary which allows understanding the complex characteristics of diverse emerging urban spaces Drawing on in depth case study material from across the world the different chapters in this

volume disentangle planetary urbanization and apply it as a research framework to the context specific challenges faced by many ordinary urban settings In addition through their focus on both Northern and Southern urban spaces this edited collection creates a truly global perspective on crucial practice relevant topics such as the co production of urban spaces the right to diversity and the right to the urban in particular local settings ,

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