

# MATERIALS MATTER

The background of the book cover features a complex, abstract pattern. It consists of numerous concentric circles and radial lines that intersect to form a grid-like structure. The lines are thin and light-colored, creating a subtle, technical aesthetic. The overall effect is reminiscent of a spiderweb or a complex network diagram.

TOWARD A SUSTAINABLE  
MATERIALS POLICY

KENNETH GEISER  
FOREWORD BY BARRY COMMONER

# Materials Matter Toward A Sustainable Materials Policy Urban And Industrial Environments

**Jessica Smartt Gullion**



## **Materials Matter Toward A Sustainable Materials Policy Urban And Industrial Environments:**

**Materials Matter** Ken Geiser, 2001-05-25 The products we purchase and use are assembled from a wide range of naturally occurring and manufactured materials But too often we create hazards for the ecosystem and human health as we mine process distribute use and dispose of these materials Until recently most research has focused on the waste end of material cycles This book argues that the safest and least costly point at which to avoid environmental damage is when materials are first designed and selected for use in industrial production Materials Matter presents convincing evidence that we can use fewer materials and eliminate the use of many toxic chemicals by focusing directly on material chemical use when products are designed It also shows how manufacturers can save money by increasing the effectiveness of material use and reducing the use of toxic chemicals It advocates new directions for the material sciences and government policies on materials And it argues that manufacturers suppliers and customers need to set more socially responsible policies for products and services to achieve higher environmental and health goals      **Fighting King Coal** Shannon Elizabeth Bell, 2016-03-25 Contextualizing the Case Central Appalachia Micro Level Processes and Social Movement Participation The Depletion of Social Capital in Coalfield Communities Identity and Environmental Justice Movement Participation Cognitive Liberation and Coal Industry Ideology Cognitive Liberation and Hidden Destruction in Central Appalachia Photovoice in Five Coalfield Communities Becoming and Un Becoming an Activist      Recycling Reconsidered Samantha Macbride, 2013-08-16 How the success and popularity of recycling has diverted attention from the steep environmental costs of manufacturing the goods we consume and discard Recycling is widely celebrated as an environmental success story The accomplishments of the recycling movement can be seen in municipal practice a thriving private recycling industry and widespread public support and participation In the United States more people recycle than vote But as Samantha MacBride points out in this book the goals of recycling saving the earth and trees conserving resources and greening the economy are still far from being realized The vast majority of solid wastes are still burned or buried MacBride argues that since the emergence of the recycling movement in 1970 manufacturers of products that end up in waste have successfully prevented the implementation of more onerous yet far more effective forms of sustainable waste policy Recycling as we know it today generates the illusion of progress while allowing industry to maintain the status quo and place responsibility on consumers and local government MacBride offers a series of case studies in recycling that pose provocative questions about whether the current ways we deal with waste are really the best ways to bring about real sustainability and environmental justice She does not aim to debunk or discourage recycling but to help us think beyond recycling as it is today      *Small, Gritty, and Green* Catherine Tumber, 2013-09-13 How small to midsize Rust Belt cities can play a crucial role in a low carbon sustainable and relocalized future America s once vibrant small to midsize cities Syracuse Worcester Akron Flint Rockford and others increasingly resemble urban wastelands Gutted by deindustrialization outsourcing and middle class flight disproportionately devastated

by metro freeway systems that laid waste to the urban fabric and displaced the working poor small industrial cities seem to be part of America's past not its future And yet Catherine Tumber argues in this provocative book America's gritty Rust Belt cities could play a central role in a greener low carbon relocalized future As we wean ourselves from fossil fuels and realize the environmental costs of suburban sprawl we will see that small cities offer many assets for sustainable living not shared by their big city or small town counterparts including population density and nearby fertile farmland available for new environmentally friendly uses Tumber traveled to twenty five cities in the Northeast and Midwest from Buffalo to Peoria to Detroit to Rochester interviewing planners city officials and activists and weaving their stories into this exploration of small scale urbanism Smaller cities can be a critical part of a sustainable future and a productive green economy Small Gritty and Green will help us develop the moral and political imagination we need to realize this

Fundamentals of Integrated Design for Sustainable Building Marian Keeler, Prasad Vaidya, 2016-04-08 The Fully Updated Indispensable Study of Sustainable Design Principles Fundamentals of Integrated Design for Sustainable Building is the first textbook to merge principles theory and practice into an integrated workflow This book introduces the technologies and processes of sustainable design and shows how to incorporate sustainable concepts at every design stage This comprehensive primer takes an active learning approach that keeps students engaged This book dispenses essential information from practicing industry specialists to provide a comprehensive introduction to the future of design This new second edition includes Expansive knowledge from history and philosophy to technology and practice Fully updated international codes like the CAL code and current legislations Up to date global practices such as the tools used for Life Cycle Assessment Thorough coverage of critical issues such as climate change resiliency health and net zero energy building Extensive design problems research exercise study questions team projects and discussion questions that get students truly involved with the material Sustainable design is a responsible forward thinking method for building the best structure possible in the most efficient way Conventional resources are depleting and building professionals are thinking farther ahead This means that sustainable design will eventually be the new standard and everyone in the field must be familiar with the concepts to stay relevant Fundamentals of Integrated Design for Sustainable Building is the ideal primer with complete coverage of the most up to date information

Street Science Jason Corburn, 2005-08-19 When environmental health problems arise in a community policymakers must be able to reconcile the first hand experience of local residents with recommendations by scientists In this highly original look at environmental health policymaking Jason Corburn shows the ways that local knowledge can be combined with professional techniques to achieve better solutions for environmental health problems He traces the efforts of a low income community in Brooklyn to deal with environmental health problems in its midst and offers a framework for understanding street science decision making that draws on community knowledge and contributes to environmental justice Like many other low income urban communities the Greenpoint Williamsburg neighborhood of Brooklyn suffers more than its share of

environmental problems with a concentration of polluting facilities and elevated levels of localized air pollutants Corburn looks at four instances of street science in Greenpoint Williamsburg where community members and professionals combined forces to address the risks from subsistence fishing from the polluted East River the asthma epidemic in the Latino community childhood lead poisoning and local sources of air pollution These episodes highlight both the successes and the limits of street science and demonstrate ways residents can establish their own credibility when working with scientists Street science Corburn argues does not devalue science it revalues other kinds of information and democratizes the inquiry and decision making processes

**Changing Lanes** Joseph F.C. Dimento,Cliff Ellis,2014-08-29 The story of the evolution of the urban freeway the competing visions that informed it and the emerging alternatives for more sustainable urban transportation Urban freeways often cut through the heart of a city destroying neighborhoods displacing residents and reconfiguring street maps These massive infrastructure projects costing billions of dollars in transportation funds have been shaped for the last half century by the ideas of highway engineers urban planners landscape architects and architects with highway engineers playing the leading role In Changing Lanes Joseph DiMento and Cliff Ellis describe the evolution of the urban freeway in the United States from its rural parkway precursors through the construction of the interstate highway system to emerging alternatives for more sustainable urban transportation DiMento and Ellis describe controversies that arose over urban freeway construction focusing on three cases Syracuse which early on embraced freeways through its center Los Angeles which rejected some routes and then built I 105 the most expensive urban road of its time and Memphis which blocked the construction of I 40 through its core Finally they consider the emerging urban highway removal movement and other innovative efforts by cities to re envision urban transportation

**Liquid Power** Erik Swyngedouw,2015-04-24 An examination of the central role of water politics and engineering in Spain s modernization illustrating water s part in forging maintaining and transforming social power In this book Erik Swyngedouw explores how water becomes part of the tumultuous processes of modernization and development Using the experience of Spain as a lens to view the interplay of modernity and environmental transformation Swyngedouw shows that every political project is also an environmental project In 1898 Spain lost its last overseas colony triggering a period of post imperialist turmoil still referred to as El Disastre Turning inward the nation embarked on regeneration and modernization Water played a central role in this during a turbulent period from the twentieth century into the twenty first through the Franco years and into the new era of liberal democracy Spain s waterscapes were completely transformed with large scale projects that ranged from dam construction to irrigation to desalinization Swyngedouw describes the contested political ecological process that marked this transformation showing that the Spain s diverse and contested paths to modernization were predicated on particular trajectories of environmental transformation After laying out his theoretical perspectives Swyngedouw analyzes three periods of Spain s political ecological modernization the aspirations and stalled modernization of the early twentieth century the accelerated

efforts under the authoritarian Franco regime which included six hundred dams expanded hydroelectricity and massive irrigation and the changing hydro social landscape under social democracy Offering an innovative perspective on the relationship of nature and society *Liquid Power* illuminates the political nature of nature *Civic Ecology* Marianne E. Krasny, Keith G. Tidball, 2015-01-30 Stories of environmental stewardship in communities from New Orleans to Soweto accompany an interdisciplinary framework for understanding civic ecology as a global phenomenon In communities across the country and around the world people are coming together to rebuild and restore local environments that have been affected by crisis or disaster In New Orleans after Katrina in New York after Sandy in Soweto after apartheid and in any number of postindustrial depopulated cities people work together to restore nature renew communities and heal themselves In *Civic Ecology* Marianne Krasny and Keith Tidball offer stories of this emerging grassroots environmental stewardship along with an interdisciplinary framework for understanding and studying it as a growing international phenomenon Krasny and Tidball draw on research in social capital and collective efficacy ecosystem services social learning governance social ecological systems and other findings in the social and ecological sciences to investigate how people practices and communities interact Along the way they chronicle local environmental stewards who have undertaken such tasks as beautifying blocks in the Bronx clearing trash from the Iranian countryside and working with traumatized veterans to conserve nature and recreate community Krasny and Tidball argue that humans innate love of nature and attachment to place compels them to restore nature and places that are threatened destroyed or lost At the same time they report nature and community exert a healing and restorative power on their stewards **Noxious New York** Julie Sze, 2006-11-22 Examines the culture politics and history of the movement for environmental justice in New York City tracking activism in four neighborhoods on issues of public health garbage and energy systems in the context of privatization deregulation and globalization Racial minority and low income communities often suffer disproportionate effects of urban environmental problems Environmental justice advocates argue that these communities are on the front lines of environmental and health risks In *Noxious New York* Julie Sze analyzes the culture politics and history of environmental justice activism in New York City within the larger context of privatization deregulation and globalization She tracks urban planning and environmental health activism in four gritty New York neighborhoods Brooklyn s Sunset Park and Williamsburg sections West Harlem and the South Bronx In these communities activism flourished in the 1980s and 1990s in response to economic decay and a concentration of noxious incinerators solid waste transfer stations and power plants Sze describes the emergence of local campaigns organized around issues of asthma garbage and energy systems and how in each neighborhood activists framed their arguments in the vocabulary of environmental justice Sze shows that the linkage of planning and public health in New York City goes back to the nineteenth century s sanitation movement and she looks at the city s history of garbage sewage and sludge management She analyzes the influence of race family and gender politics on asthma activism and examines

community activists responses to garbage privatization and energy deregulation Finally she looks at how activist groups have begun to shift from fighting particular siting and land use decisions to engaging in a larger process of community planning and community based research projects Drawing extensively on fieldwork and interviews with community members and activists Sze illuminates the complex mix of local and global issues that fuels environmental justice activism Fracking the Neighborhood Jessica Smartt Gullion, 2017-09-08 What happens when natural gas drilling moves into an urban area how communities in North Texas responded to the environmental and health threats of fracking When natural gas drilling moves into an urban or a suburban neighborhood a two hundred foot high drill appears on the other side of a back yard fence and diesel trucks clog a quiet two lane residential street Children seem to be having more than the usual number of nosebleeds There are so many local cases of cancer that the elementary school starts a cancer support group In this book Jessica Smartt Gullion examines what happens when natural gas extraction by means of hydraulic fracturing or fracking takes place not on wide open rural land but in a densely populated area with homes schools hospitals parks and businesses Gullion focuses on fracking in the Barnett Shale the natural gas rich geological formation under the Dallas Fort Worth metroplex She gives voice to the residents for the most part educated middle class and politically conservative who became reluctant anti drilling activists in response to perceived environmental and health threats posed by fracking Gullion offers an overview of oil and gas development and describes the fossil fuel culture of Texas the process of fracking related health concerns and regulatory issues including the notorious Halliburton loophole She chronicles the experiences of community activists as they fight to be heard and to get the facts about the safety of fracking Touted as a greener alternative and a means to reduce dependence on foreign oil natural gas development is an important part of American energy policy Yet as this book shows it comes at a cost to the local communities who bear the health and environmental burdens **Recycling Class** Manisha

Anantharaman, 2024-01-02 An ethnographic and community engaged study of the class caste and gender politics of environmental mobilizations around Bengaluru India s discards In **Recycling Class** Manisha Anantharaman examines the ideas flows and relationships around unmanaged discards in Bengaluru India itself a massive environmental problem of planetary proportions to help us understand what types of coalitions deliver social justice within sustainability initiatives **Recycling Class** links middle class sustainable consumption with the environmental labor of the working poor to offer a relational analysis of urban sustainability politics and practice Through ethnographic community based research Anantharaman shows how diverse social groups adopt contest and modify neoliberal sustainability s emphasis on market based solutions behavior change and the aesthetic conflation of clean with green Tracing garbage politics in Bengaluru for over a decade Anantharaman argues that middle class communal sustainability efforts create new avenues for waste picker organizations to make claims for infrastructural inclusion Coproduced DIY infrastructures serve as sites of citizenship and political negotiation challenging the technocratic and growth based logics of dominant sustainability policies Yet these

configurations reproduce class caste and gender based divisions of labor demonstrating that inclusion without social reform can reproduce unjust distributions of risk and responsibility Revealing the win win fallacy of sustainability and foregrounding the agency of communities excluded from environmental policy Recycling Class will appeal to scholars and activists alike who want to create a future with more transformative sustainability Rail and the City Roxanne Warren,2014-09-12 An architect makes the case for rail transit as the critical infrastructure for a fluidly functioning and environmentally sustainable urban society The United States has evolved into a nation of twenty densely populated megaregions Yet despite the environmental advantages of urban density urban sprawl and reliance on the private car still set the pattern for most new development Cars guzzle not only gas but also space as massive acreage is dedicated to roadways and parking Even more pressing the replication of this pattern throughout the fast developing world makes it doubtful that we will achieve the reductions in carbon emissions needed to avoid climate catastrophe In Rail and the City architect Roxanne Warren makes the case for compact urban development that is supported by rail transit Calling the automobile a relic of the twentieth century Warren envisions a release from the tyrannies of traffic congestion petroleum dependence and an oppressively paved environment Technical features of rail are key to its high capacities safety at high speeds and compactness uniquely qualifying it to serve as ideal infrastructure within and between cities Ultimately mobility could be achieved through extensive networks of public transit particularly rail supplemented by buses cycling walking car sharing and small flexible vehicles High speed rail fed by local transit could eliminate the need for petroleum intensive plane trips of less than 500 miles Warren considers issues of access to transit citing examples from Europe Japan and North America and pedestrian and transit oriented urban design Rail transit she argues is the essential infrastructure for a fluidly functioning urban society

**Rivertown** Paul Stanton Kibel,2007 Each case study in Rivertown considers the critical questions of who makes decisions about our urban rivers who pays to implement these decisions and who ultimately benefits or suffers from these decisions book cover *Environmental Justice in Latin America* David V. Carruthers,2008 Scholars and activists investigate the emergence of a distinctively Latin American environmental justice movement offering analysis and case studies that illustrate the connections between popular environmental mobilization and social justice in the region **Precautionary Politics** Kerry H Whiteside,2006-10-06 The precautionary principle which holds that action to address threats of serious or irreversible environmental harm should be taken even in the absence of scientific certainty has been accepted as a key feature of environmental law throughout the European Union In the United States however it is still widely unknown and much of what has been written on the topic takes a negative view Precautionary Politics provides a comprehensive analysis of the precautionary principle its origins and development its meaning and rationale its theoretical context and its policy implications Kerry Whiteside looks at the application of the principle and the controversies it has stirred and compares European and American attitudes toward it and toward environmental regulation in general Too often Whiteside argues



American critics of the precautionary principle pay insufficient attention to how the principle has been debated refined and elaborated elsewhere Precautionary Politics fills this gap Whiteside demonstrates the different responses of Europe and the United States first by describing the controversy over genetically modified crops and then by using this example throughout the book to illustrate application of the precautionary principle in different contexts He contrasts the European view that new types of risk require specially adapted modes of regulation with the American method of science based risk assessment and argues that despite Bush administration opposition U S European convergence on precaution is possible Finally he looks at the ways in which participatory innovation can help produce environmentally positive results Whiteside s systematic defense of the precautionary principle will be an important resource for students scholars activists and policymakers and is particularly suitable for classroom use

Sustainability on Campus Peggy F. Barlett,Geoffrey W. Chase,2004-04-02 Stories both practical and inspirational about environmental leadership on campus These personal narratives of greening college campuses offer inspiration motivation and practical advice Written by faculty staff administrators and a student from varying perspectives and reflecting divergent experiences these stories also map the growing strength of a national movement toward environmental responsibility on campus Environmental awareness on college and university campuses began with the celebratory consciousness raising of Earth Day 1970 Since then environmental action on campus has been both global in research and policy formation and local in efforts to make specific environmental improvements on campuses The stories in this book show that achieving environmental sustainability is not a matter of applying the formulas of risk management or engineering technology but part of what the editors call the messy reality of participatory engagement in cultural transformation In Sustainability on Campus campus leaders recount inspiring stories of strategies that moved eighteen colleges and universities toward a more sustainable future This book is for faculty students administrators staff and community partners whether hesitant or committed knowledgeable or newcomer Scholars and activists have recognized the crucial role that higher education can play in the sustainability effort and each chapter in the book is full of ideas about how to get started revitalize efforts and overcome roadblocks Human and at times joyful these stories illustrate many forms of leadership in new courses and faculty development green buildings and administrative policies student programs residential life and collaborations with local communities

**New York for Sale** Tom Angotti,2011-02-25 How community based planning has challenged the powerful real estate industry in New York City Remarkably grassroots based community planning flourishes in New York City the self proclaimed real estate capital of the world with at least seventy community plans for different neighborhoods throughout the city Most of these were developed during fierce struggles against gentrification displacement and environmental hazards and most got little or no support from government In fact community based plans in New York far outnumber the land use plans produced by government agencies In New York for Sale Tom Angotti tells some of the stories of community planning in New York City how activists moved beyond simple protests and

began to formulate community plans to protect neighborhoods against urban renewal real estate mega projects gentrification and environmental hazards Angotti both observer of and longtime participant in New York community planning focuses on the close relationships among community planning political strategy and control over land After describing the political economy of New York City real estate its close ties to global financial capital and the roots of community planning in social movements and community organizing Angotti turns to specifics He tells of two pioneering plans forged in reaction to urban renewal plans including the first community plan in the city the 1961 Cooper Square Alternate Plan a response to a Robert Moses urban renewal scheme struggles for environmental justice including battles over incinerators sludge and garbage plans officially adopted by the city and plans dominated by powerful real estate interests Finally Angotti proposes strategies for progressive inclusive community planning not only for New York City but for anywhere that neighborhoods want to protect themselves and their land New York for Sale teaches the empowering lesson that community plans can challenge market driven development even in global cities with powerful real estate industries      *Sidewalks* Anastasia

Loukaitou-Sideris, Renia Ehrenfeucht, 2011-12-09 Examines the evolution of an undervalued urban space and how conflicts over competing uses from the right to sit to the right to parade have been negotiated Urban sidewalks critical but undervalued public spaces have been sites for political demonstrations and urban greening promenades for the wealthy and the well dressed and shelterless shelters for the homeless On sidewalks decade after decade urbanites have socialized paraded and played sold their wares and observed city life These many uses often overlap and conflict and urban residents and planners try to include some and exclude others In this first book length analysis of the sidewalk as a distinct public space Anastasia Loukaitou Sideris and Renia Ehrenfeucht examine the evolution of the American urban sidewalk and trace conflicts that have arisen over its competing uses Drawing on historical and contemporary examples as well as case study research and archival data from five cities Boston Los Angeles New York Miami and Seattle they discuss the characteristics of sidewalks as small urban public spaces and such related issues as the ambiguous boundaries of their public status contestation over specific uses control and regulations and the implications for First Amendment speech and assembly rights

**The Working Landscape** Peter F. Cannavo, 2007-06-22 In America today we see rampant development unsustainable resource exploitation and commodification ruin both natural and built landscapes disconnecting us from our surroundings and threatening our fundamental sense of place Meanwhile preservationists often respond with a counterproductive stance that rejects virtually any change in the landscape In *The Working Landscape* Peter Cannav identifies this zero sum conflict between development and preservation as a major factor behind our contemporary crisis of place Cannav offers practical and theoretical alternatives to this deadlocked polarized politics of place by proposing an approach that embraces both change and stability and unifies democratic and ecological values creating a working landscape Place Cannav argues is not just an object but an essential human practice that involves the physical and conceptual organization of our surroundings into a

coherent enduring landscape This practice must balance development which he calls founding and preservation Three case studies illustrate the polarizing development preservation conflict the debate over the logging of old growth forests in the Pacific Northwest the problem of urban sprawl and the redevelopment of the former site of the World Trade Center in New York City Cannav suggests that regional democratic governance is the best framework for integrating development and preservation and he presents specific policy recommendations that aim to create a working landscape in rural suburban and urban areas A postscript on the mass exile displacement and homelessness caused by Hurricane Katrina considers the implications of future climate change for the practice of place

## Unveiling the Magic of Words: A Report on "**Materials Matter Toward A Sustainable Materials Policy Urban And Industrial Environments**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Materials Matter Toward A Sustainable Materials Policy Urban And Industrial Environments**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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