

Contents

<i>List of Illustrations</i>	xv
<i>List of Tables and Boxes</i>	xix
<i>Copyright Information</i>	xx
<i>Illustration Credits</i>	xxv
<i>About the Editor</i>	xxxi
<i>Acknowledgments</i>	xxxii
Introduction to the Fourth Edition	1
PART 1 ORIGINS OF THE SUSTAINABILITY CONCEPT	3
Introduction to Part 1	4
"The Three Magnets" and "The Town-Country Magnet" from <i>Garden Cities of To-morrow</i> (1898)	7
Ebenezer Howard	
"The Land Ethic" from <i>A Sand County Almanac</i> (1949)	14
Aldo Leopold	
"Orthodox Planning and the North End" from <i>The Death and Life of Great American Cities</i> (1961)	21
Jane Jacobs	
"The Development of Underdevelopment" from <i>Capitalism and Underdevelopment in Latin America</i> (1967)	26
Andre Gunder Frank	
"Plight and Prospect" from <i>Design With Nature</i> (1969)	30
Ian McHarg	
"Perspectives, Problems, and Models" from <i>The Limits to Growth</i> (1972)	34
Donella H. Meadows, Dennis L. Meadows, Jörgen Randers, and William W. Behrens III	
"The Steady-State Economy" from <i>Toward a Steady-State Economy</i> (1973)	40
Herman Daly	

viii	CONTENTS	
	“City and Nature” from <i>The Granite Garden: Urban Nature and Human Design</i> (1984)	46
	Anne Whiston Spirn	
	“Towards Sustainable Development” from <i>Our Common Future</i> (1987)	51
	World Commission on Environment and Development (The Brundtland Commission)	
	“The End of Nature” from <i>The End of Nature</i> (1989)	56
	Bill McKibben	
	“People-of-Color Environmentalism” from <i>Dumping in Dixie: Race, Class, and Environmental Quality</i> (1990)	63
	Robert Bullard	
	The Sustainable Development Goals + SDG 11 + The New Urban Agenda’s Shared Vision (2015 and 2016)	70
	United Nations	
	PART 2 DIMENSIONS OF URBAN SUSTAINABILITY	77
	Introduction to Part 2	78
	Addressing the Climate Crisis	81
	“Game Changers: Bold Actions by Cities to Accelerate Progress Toward Carbon Neutrality” from the Carbon Neutral Cities Alliance (2018)	83
	Carbon Neutral Cities Alliance	
	“Unlocking the Potential for Transformative Climate Adaptation in Cities” from the Global Commission on Adaptation (2021)	86
	Eric Chu, Anna Brown, Kavya Michael, Jillian Du, Shuaib Lwasa, and Anjali Mahendra	
	“Climate Changed Urban Futures in the Anthropocene City” from <i>Environmental Politics</i> (2021)	91
	Harriet Bulkeley	
	“A Culture-Centered Approach to Climate Adaptation: Insights from New Zealand” from <i>Climate Futures: Reimagining Global Climate Justice</i> (2019)	95
	Debashish Munji, Priya A. Kurian, and Sandra L. Morrison	
	Providing Sustainable Mobility	101
	“Reducing Emissions: Opportunities in Transport” from the World Resources Institute (2019)	103
	Taryn Fransen, Benjamin Welle, Camron Gorguinpour, Margaret McCall, Ramping Song, and Alexander Tankou	
	“Beyond Mobility” from <i>Beyond Mobility: Planning Cities for People and Places</i> (2017)	106
	Robert Cervero, Erick Guerra, and Stefan Al	

	CONTENTS	ix
	“Cycling Towards a Sustainable Transport Future” from <i>Transport Reviews</i> (2017)	111
	John Pucher and Ralph Buehler	
	Managing Land and Designing Places	117
	“The Next American Metropolis” from <i>The Next American Metropolis: Ecology, Community, and the American Dream</i> (1993)	119
	Peter Calthorpe	
	“How Do We Use Land More Sustainably?” from <i>Reimagining Sustainable Cities</i> (2021)	129
	Stephen M. Wheeler and Christina D. Rosan	
	“The Human Dimension” from <i>Cities for People</i> (2010)	137
	Jan Gehl	
	Restoring Ecosystems and Greening the City	141
	“Urban Design for Biodiversity” from <i>Fundamentals of Sustainable Urban Design</i> (2021)	143
	Avi Friedman	
	“Biophilic Cities” from <i>Biophilic Cities</i> (2011)	150
	Timothy Beatley	
	Using Materials Wisely “Waste” from <i>Solved: How the World’s Great Cities Are Fixing the Climate Crisis</i> (2020)	153
	David Miller	
	“Closing the Loop” from <i>Thicker than Water</i> (2021)	160
	Erica Cerino	
	“Water” from <i>Can a City be Sustainable?</i> (2016)	165
	Gary Gardner	
	Ensuring Affordable Housing and Inclusion	169
	“Yes, You Can Build Your Way to Affordable Housing: Lessons from Unexpected Places” from Sightline Institute (2017)	171
	Alan Durning	
	“Missing Middle Housing” from <i>Missing Middle Housing</i> (2020)	180
	Dan Parolek	
	“Feminist City” from <i>Feminist City: Claiming Space in a Man-made World</i> (2020)	186
	Leslie Kern	
	“Queering Participatory Planning” from <i>Environment & Urbanization</i> (2021)	192
	Vanesa Castán Broto	

Promoting Social and Environmental Justice	197
“Just Sustainabilities” from <i>Introducing Just Sustainabilities: Policy, Planning, and Practice</i> (2013)	199
Julian Agyeman	
“Fighting Poverty and Environmental Injustice in Cities” (2007) from <i>State of the World 2007: Our Urban Future</i>	202
Janice E. Perlman with Molly O'Meara Sheehan	
“The Case for Reparations” from <i>We Were Eight Years in Power</i> (2017)	214
Ta-Nehisi Coates	
Rethinking Economic Development and Capitalism	219
“Sustainable Development Economics” from <i>Project Syndicate</i> (2014)	221
Jeffrey D. Sachs	
“Just Transition Description and Principles” (2018)	224
Climate Justice Alliance	
“The Value of a Degrowth Economy” from <i>Independent Australia</i> (2021)	228
Erin Remblance	
“Smart Cities Should Mean Sharing Cities” (2014) from <i>Zócalo Public Square</i>	231
Julian Agyeman and Duncan Maclaren	
“Strengthening Local Economies” (2007) from <i>State of the World 2007: Our Urban Future</i>	234
Mark Roseland with Lena Soots	
Building Green	245
“The Urgency of Embodied Carbon” (2018) from <i>BuildingGreen</i>	247
Paula Melton	
“Life Cycle Assessment of Buildings” (2019)	254
Carbon Leadership Forum, University of Washington	
LEED v4.1 Description and Scorecard for Building Design and Construction (2022)	258
US Green Building Council	
“Building New Social Infrastructures” from <i>Climate Urbanism</i> (2020)	261
Jennie Pickerill	
Creating Healthy Environments and Food Systems	265
“Human Health and a Sustainable Built Environment” from <i>Encyclopedia of Sustainable Technologies</i> (2017)	267
Susan M. Thompson and Jennifer L. Kent	

“The Gendered Politics of Food” from <i>Staying Alive: Women, Ecology, and Development</i> (2010)	276
Vandana Shiva	
“Why the ‘Slow’ Movement is Gaining Momentum” from <i>ThriveGlobal</i> (2014)	280
Cass Dunn	
Envisioning Healthy Democracy	283
“Social Change is Coming” from <i>The Guardian</i> (2021)	285
Rebecca Solnit	
“Urban Healing: Recovering from Trauma” from <i>Cities for Life: How Communities Can Recover from Trauma and Rebuild for Health</i> (2021)	288
Jason Corburn	
“Love as the Practice of Freedom” from <i>Outlaw Culture: Resisting Representations</i> (1994)	292
bell hooks	
PART 3 TOOLS FOR SUSTAINABILITY PLANNING	297
Introduction to Part 3	298
“Indicators for Sustainability” from <i>Indicators for Sustainability: How Cities Are Monitoring and Evaluating Their Success</i> (2012)	301
Sustainable Cities International	
“What Is an Ecological Footprint?” from <i>Our Ecological Footprint</i> (1996)	305
Mathis Wackernagel and William Rees	
“Seeing Change” from <i>Looking at Cities</i> (1985)	314
Allan Jacobs	
“Citizen Participation for Sustainable Cities” from <i>Stockholm Environment Institute</i> (2021)	319
Astrid Nilsson, Fedra Vanhuyse, Venni Arra, Alicia Requena, and Magnus Agerström	
“The Use of Social Media” (2015)	323
CIVITAS	
“Tactical Urbanism: Disturbing the Order of Things” from <i>Tactical Urbanism</i> (2015)	327
Mike Lydon and Anthony Garcia	
“The Story of Change” from <i>The Story of Stuff Project</i> (2012)	332
Annie Leonard	
“Active Hope” from <i>Active Hope: How to Face the Mess We're In Without Going Crazy</i> (2012)	335
Joanna Macy and Chris Johnstone	

PART 4 URBAN SUSTAINABILITY IN THE DEVELOPING WORLD	339
Introduction to Part 4	340
“Developing the Sustainable City: Curitiba, Brazil, as a Case Study” from <i>How Cities Will Save the World: Urban Innovation in the Face of Population Flows, Climate Change and Economic Inequality</i> (2016)	341
Hanna-Ruth Gustafsson and Elizabeth A. Kelly	
“Sustainable City: Crisis and Opportunity in Mexico” from <i>Sustaining Cities: Urban Policies, Practices, and Perceptions</i> (2013)	349
Alfonso Iracheta	
“Urban China: The Torturous Path Toward Sustainability” from <i>Planning Theory and Practice</i> (2020)	355
Guilio Verdini and Li Zhang	
“How Africa Can Build Inclusive, Safe and Sustainable Cities” from <i>The Conversation</i> (2015)	361
Jacqueline M. Klopp and Jeffrey W. Paller	
PART 5 VISIONS OF SUSTAINABLE COMMUNITY	365
Introduction to Part 5	366
“The Streets of Ecotopia’s Capital” and “Car-Less Living in Ecotopia’s New Towns” from <i>Ecotopia</i> (1975)	369
Ernest Callenbach	
“Description of Abbenay” from <i>The Dispossessed</i> (1974)	375
Ursula K. LeGuin	
“A Sustainable Society” from <i>Climate Change and Social Ecology</i> (2012)	379
Stephen M. Wheeler	
PART 6 SUSTAINABILITY PLANNING PEDAGOGY	385
Introduction to Part 6	386
“Sustainability Pedagogies” from <i>Sustainability Education: Perspectives and Practice Across Higher Education</i> (2010)	387
Debbie Cotton and Jennie Winter	
“On Competence in Sustainability Research and Problem Solving” from <i>Environment Magazine</i> (2011)	395
Arnim Wiek, Lauren Withycombe, Charles Redman, and Sarah Banas Mills	

“Principles for Teaching Urban Sustainability” from <i>Habitat International</i> (2018)	401
Nan Li, Deland Chan, Quan Mao, Kevin Hsu, and Zhiyong Fu	
“Blooming in the Doom and Gloom: Bringing Regenerative Pedagogy to the Rebellion” from <i>Journal of Sustainability Education</i> (2020)	407
Tema Milstein	
PART 7 CLASS EXERCISES	411
Introduction to Part 7	412
Cognitive Mapping Exercise	413
Future Visions Exercise	413
Definitions of Sustainable Development	414
Role Plays to Analyze Sustainability Perspectives and Decision-Making	415
Sustainability Indicators Exercise	418
Personal Ecological Footprints	418
First-Hand Analysis of Urban Environments	419
Regional Vision Exercise	420
Economic Development Exercise	421
Creek Mapping Exercise	423
Neighborhood Planning Exercise	424
An Ecological Site Plan	425
International Development Exercise	426
Mapping Your Own Block	428
Using YouTube Videos on Sustainability	428
Class Debates on Urban Sustainability Themes	429
Studio or Service Learning Classes	430
PART 8 EXAMPLES OF URBAN SUSTAINABILITY	433
Introduction to Part 8	434
Energy-Positive Buildings in Europe	435
Sky Gardens in Frankfurt	436
Sustainable Skyscraper in Guangzhou	437
Bio-Climatic Building in Kuala Lumpur	438
A Living Building in Seattle	439
Passive Solar Design and Biomimicry in Harare	440
Bamboo Construction in Bali	441
Green Affordable Housing in the Bronx	442
Eco-Village Cohousing in Adelaide	444
Eco-Districts Worldwide	445
District Heating in Stockholm	461
Building Energy Retrofits in Europe	463
Sponge City Development in China	463
Ecological Park Stewardship in Taiwan	464

Removing a Freeway and Restoring a River in Seoul	466
Constructed Wetlands for Sewage Treatment in Arcata	467
Rehabilitating Old Industrial Lands in Germany	468
Sustainable Rural Development in Gaviotas	470
Green and Blue Spaces in Oslo	472
Green Density in Singapore	474
Sustainability Planning in London	475
Social Housing in Vienna	477
Transportation Planning in Bogotá	478
Reducing Motor Vehicles in Paris	480
Bicycling in Copenhagen	481
Local Food Systems in Kenya	482
A Cooperative Economy in Mondragón	483
Social Equity in Kerala	484
Songdo as a Green Tech Hub	486
A Culture of Progressive Planning in Portland	487
Building Unity in Auroville	490
Local Democracy in Burlington	493
Citizen Budgeting in Melbourne	495
Ecological Regionalism in Vancouver	495
 <i>Index</i>	 499