INDEX

Page numbers followed by f refer to figures.

A
Access, to Playa Viva Resort, 4–5
Ackoff, Russell, 114, 177
Activists:
  in conventional development projects, 192–193
  in Las Salinas campus project, 189–192
  reactivity of, 178–179
Actualization:
  self-, 202–204
  of stakeholder systems, 84–88, 92–93
  systems, see Systems actualization
Acupuncture, urban, 156, 167
Adams, Bill, 116
Adding value. See also Value-adding roles
defined, 139
in designing for evolution, 17–19
sustainability as byproduct of, 62
“Advanced Energy Efficient and Resource Efficient
Single Family Residence Code,” 92
AECOM, 110
Affordable housing, 179–181
Affordable Housing Overlay Zone, 23
Agency, xiv–xv
Agroforestry economy, 74, 75, 78, 97–98
Aims, 204. See also Developmental aims
Albuquerque, New Mexico, 183–187, 193
Albuquerque Metropolitan Arroyo Flood Control
Authority, 184
Alexander, Christopher, 48
Alignment:
  and co-responsibility, 194
  in Las Salinas campus project, 190–191
  in predesign process, 188–189
  in regenerative processes, 107
Amarillo, Texas, 93–94
American Southwest, guilds in, 89, 90f
Anderson, Kat, xxvi–xxvii, 39
Anielski, Mark, 95
Animal tracking, 210
Ant Colony (theme), 105
Anthropocene, 213–214
Appearance, essence and, 49
Archimedes, 154
Architectural programming, 29
Aristotle, 61
Arizona:
  Dunbar/Spring stormwater harvesting project,
  119–122, 120f, 121f
  Hubbell Trading Farm project, 125–129, 125f, 131
  residential project in northern, 174
Artisan communities, locations of, 174
The Art of City Making (Landry), 193
Atomizing bias, 207
Avoidance, 178–179

B
Bacon, Francis, xxii
Baltimore Harbor (Maryland), 162–166
Batshalom, Barbara, 193
Bayview-Hunters Point (San Francisco, California), xxx
Beaver dams, as nodes, 159
Bees, evolution of flowers and, 16–17, 16f, 82
Beekeepers, thinking by, 150, 151
Being, management of one’s, 211–212
“Being thinking,” 150–151
Benne, Beatrice, 198–200, 198f, 199f
Berg, Peter, 38
Berry, Wendell, xxii, 33, 38
Best practices, 33
Biases, 207, 208
Biodiversity, 86–88
Biodynamic growing, 3, 4f
Biohabitats (firm), 162, 163, 165, 166
Biological organization, patterns in, 57
Blake, William, 111
Blessed Unrest (Hawken), 215
Boecker, John, 104–106, 108
Bohm, David, 211
Boundaries, 56–57
Bowers, Keith, 166
Brainstorming, with stakeholders, 181
Brand, Stewart, 19
Branding, 77
Brattleboro Food Co-op (Brattleboro, Vermont),
25–29, 26f, 28f, 31
Brazil, see Curitiba, Brazil
Brittany, France, redevelopment project, 199–200,
199f
Brundtland Commission report, vi, xxiv
Building, green, 33, 155
Buildings, as nodal interventions, 168
Building codes, 44, 91–92
Bureau of Land Management, 125

C

California:
Bayview-Hunters Point neighborhood, xxx
co-evolution in, xxvi–xxvii
Living Rooms at the Border project, 21–25, 22f, 31
partnering with place in, 39
Quesada Gardens Initiative, xxx
retreat center project in northern, 129–130, 132
California oaks, leaf-eating insects and, 142
Call centers, 125
Cameron, John, 38
Campanos, 97–98, 99f
Cape Flats Nature (Cape Town, South Africa), 85–88
Cape Town, South Africa, 85–88, 85f
Capital, 95–97, 96f
Capra, Fritjof, 156–157
Caring:
and essence, 59
fields of, 205
and place, 38–39
spirit of, 177–178
for systems actualization, 205–207
Cartesian bias, 208
Casa Familiar, 22, 23, 29
Celebrations of place, 58–59
Center out approaches, 29
Central object, focus on, 208, 209
Central Park (McAllen, Texas), 49–55, 54f
CH2M-Hill, 110
Change:
in designing for evolution, 15–16
developmental processes for, xv
mindset about, 215–216
from nodal interventions, 159, 166–167
and pattern literacy, 209
in regenerative development, xv
sequencing of, 169
tools and strategies as seeds for, xxii
Change agents:
in design projects, xxxiii–xxxiv, 217
regenerative practitioners as, 197–200
Chesapeake Bay, 160–162
Chile, Las Salinas campus project in, 189–192
Churro sheep, 127, 128f
Citizens Advisory Committee, 117
City(-ies):
in living networks, 158
nestedness of, 47
radial model of, 67
Civil engineering, gabions in, 169
Civilizational crisis, factors in, v
Climate warming, as factor in design, viii
Co-creative engagement, 181–182, 216
Co-evolution:
and place, xxxi, 36
sustainability as, xxvi–xxvii
Co-evolving mutualism, 82–85
Cole, Raymond, xxvii
Collaborations, 24, 88
Collar de Flores conceptualization, 170–171, 171f
Collective process, discovering potential in, 194
Collective vocation:
in Curitiba, Brazil, 64–69
in regenerative development, 63–64
Commodification, of place, 34–37
Commoner, Barry, 153
Commonwealth, of place, 94
Communication, culturally appropriate, 192
Community(-ies):
in Cape Flats Nature, 86–87
collective vocation in, 63
design intelligence of, 24
effects of regenerative design/development
on, viii, 182–183
involvement of, in design process, 178–179
Community land trust, 187
Competition, 11–13
Complexity, honoring, 207–210
Complexity: The Emerging Science at the Edge of
Order and Chaos (Waldrop), 16
Complexity theory, 84
Complex problems, mindset for solving, xiii–xiv
Complex reciprocity, 88
Concept, in architecture, 142
Conceptualization:
guidelines for, 150–152
in Middle Kyle Canyon project, 145–150
in regenerative development/projects, 142–144, 177
in Rio Sabinal project, 170–171, 171f
Connection, in development projects, 177–178
Conservation, 86
Context:
culture and focus on, 208, 209
in potential-focused orientation, 131
Conversational drift, 217
Cooperation, 11–13, 28
Core patterns, 49–52
Co-responsibility, 182, 194
Cosmopolitanism, 216
Creative placemaking, 187–189
Creativity:
and awakening caring, 205
and change, 15–16
and potential, 118
and roles-based thinking, 138
and sharing core values of projects, 194–195
Crockett, David, vi
Cruz, Teddy, 21–24, 29, 30
Culturally appropriate communication, 192
Cultural Services Department (City of Albuquerque), 184
Culture:
place and local, 35–36, 38
and thinking patterns, 208–210
views of complexity and, 207
Curitiba, Brazil, 64–69, 64f
leverage of will in, 68–69
nested vocations in, 72
nodal interventions in, 166–167
as school of ecological urbanism, 66–67
vocation of place for, 71
Curitiba Botanical Garden, 68f

D
Darwin, Charles, 12
Density, housing, 23, 180
Depave (group), 167
Descartes, Rene, xxii
Desert Living Center and Sustainability Gallery, 40, 42f
Design:
applying vocations to, 77–79
boundaries of, v
ecological, v–vi
evolution as challenge and opportunity in, 21
meaning making by, 216–217
net positive, 158
potential vs. problem orientation in, 111–112, 114–115
regenerative, see Regenerative design
of regenerative processes, 103–110
role of, vii
sustainable, 21, 112
urban, 24
warming climate as factor in, viii
Designer(s). See also Regenerative practitioners
as change agent, xxxiii, xxxiv, 197, 217
predictions and failures of foresight for, v
in regenerative development, vii, xv–xvii, 182, 217
Designing for evolution:
adding value in, 17–19
at Brattleboro Food Co-op, 25–31
change in, 15–16
diversity in, 16–17
and goals of regenerative projects, 19–20
guidelines for, 29–31
in Living Rooms at the Border project, 21–25
nested phenomena in, 18–19
in regenerative development, 11
Design process. See also Regenerative process
avoidance in, 178–179
as change agent, xxxiii, xxxiv, 217
community involvement in, 178–179
designing, 103
reciprocity in, 194
in regenerative development, 182
themes in, 105, 107
users in, 103
Design product:
as change agent, xxxiii, xxxiv, 217
in regenerative development, 182
regenerative practitioners’ thinking about, 1
Design projects. See also Development project(s);
Regenerative project(s)
and boundaries of design, v
change agents in, xxxiii–xxxiv, 217
discovery phase of, 112–114
in nestedness framework, 56
roles of, vii, 30
in terms of nodes, 172–174
Design team, impact of regenerative processes on, 108, 110
Design tools, identifying appropriate, 195
Developmental aims, 204–212
awakening caring as, 205–207
being a work in progress as, 211–212
defined, 204
honoring complexity as, 207–210
Developmental processes, xv, xxxii–xxxiii
Development project(s), 177–195
avoidance and reactivity in, 178–179
guidelines for working with stakeholders on, 194–195
International District of Albuquerque, 183–187
Las Salinas campus in Viña del Mar, 189–192
limitations of conventional approaches to, 192–193
Development project(s) (continued)
  predesign process for, 187–189
  proactive vs. co-creative engagement in, 181–182
  in regenerative development, 182–183
  in Santa Fe, 179–181
Diamond, Jared, viii
Direction, from vocations, 62–64, 69–70, 78–79
Discovery phase of design projects, 112–114
Diversity:
  biodiversity, 86–88
  in Central Park (McAllen, Texas), 53, 55
  in designing for evolution, 16–17
  infinite, 69–70
Downtown Plan (Portland, Oregon), 117
Dubos, René, 38, 45, 48
Dunbar/Spring stormwater harvesting project (Tucson, Arizona), 119–122, 120f, 121f
Dynamic equilibrium, xxv
Dynamic Flowing (pattern), 50–51

E
Earth, sustainability and state of, xx–xxi
East Asian cultures, 208–210
East Mesa neighborhood (Albuquerque, New Mexico), 183–187
Ecological design, v–vi
Ecological model of nature, xxiii, 70
Ecological restoration, 155
Ecological urbanism, 65–67
Ecology, urban, 158
Economic growth, ecological design and, vi
Ecosystems, xx
  co-evolving mutualism in, 84
  human management practices and, 82
  local, 66–67
Ecosystem-Based Fisheries Management, 70
Eco-tourism, 2
Edges, of systems, 160–161, 161f
Ejido, 113–114
End-state thinking, 144
Energy, of potential, 132–133
Energy fields, 205–207
Energy systems, around nodes, 168
Engagement. See also Stakeholder engagement for changing thinking, 211
  co-creative, 181–182, 216
  proactive, 181–182
  public, 108, 109f, 189–190
  relational, 39–40, 92–93
  transactional, 91–93
Entropy, 10–11
Environmental impact(s):
  in ecological design, v–vi
  of organism, 13
  systemic nature of, 153–154
Environmental problems, causes of, xiv
Environmental responsibility, 68–69
Equilibrium, sustainability as, xxiv–xxv
Essence:
  in Central Park (McAllen, Texas), 50–52
  discovering, 58–59
  focusing on, 131
  gifts vs., 124–125
  in living systems, 48–49
  and potential, 123–124
Events, vocation from, 78
Evolution, 9–31. See also Designing for evolution and Brattleboro Food Co-op, 25–29
  as challenge/opportunity in design, 21
  co-evolution, xxvi–xxvii, xxxi, 36
  competition and cooperation for participants in, 11–13
  defined, xxiv
  entropy in living systems vs., 10–11
  goals of regenerative projects related to, 19–20
  humans as participants in, 13–15
  and Living Rooms at the Border, 21–25
  maintaining potential for, 29
  and Playa Viva Resort project, 5–7
  and potential, 117–119
  regeneration as enabler of, xxviii–xxx
Existence, goals addressing, 151
Extinction, 11

F
Farm economy, 27–29
Farmers markets, as nodes, 159
Farmland, development of, 114–115
Farm restoration, 126–129
Fertilizers, 114
Festivals, 121, 122f
Financial capital, 95, 96, 98
Fisheries, direction for, 70
Five capitals framework of wealth, 95–97, 96f
Flows:
  in Central Park project, 50–51
  in living networks, 158–159
  in Living Rooms at the Border, 24
  scale of, 173–174
Flowers, evolution of bees and, 16–17, 16f, 82
Food web, 156
G

Gabions, 169
Ganado, Arizona, 125–129, 125f, 131
Gandhi, Mohandas, 211
Gardener, value-adding role of, 139
Gateways, 147–148, 148f
Generalities, guilds in terms of, 100
Genuine wealth, 95–97, 96f
The Geography of Thought (Nisbett), 208
Geologic nodes, 160
Geophysical organization, patterns in, 57
Gifts, essence vs., 124–125
Glanzberg, Joel, 210
Glasgow, Scotland, 77
Global sustainability movement, xix
Goals of regenerative projects, 135–152
end-state thinking about, 144
evolution-related, 19–20
functional, 136–137
and guidelines for shifting to regenerative
design process, 150–152
Middle Kyle Canyon project, 145–150
mindset for setting, 137–138
and value-adding roles of projects, 138–144
Goehring, Mark, 27
Goodwin, Neva, 95
Grand Tetons, farmland development near,
114–115
Grassroots movements, 167
Gray wolves, in Yellowstone National Park,
140–142, 141f, 156
Greater whole, 56
Green building, 33, 155
Green design movement, xxf, xxiv–xxv
Green Guerrilla movement, 167
Großman, Manuel, 104
Growing, biodynamic, 3, 4f
Grudin, Robert, vi–vii
Guild(s), 88–92
catalyzing, 101
described, 88–90, 89f
guidelines for attracting, 100–101
for El Jobo project, 97–100
as nodes, 162
in predesign process, 188–189
regeneration by, 91–92
H

Hailey, Idaho, xxxii–xxxiii
Harmon, Willis, xiii
Harrison, Helen, 217
Harrison, Newton, 217
Hawken, Paul, 215, 216
Health, systemic, 45
Healthy Harbor Initiative, 162–163
Hearings, public, 188
Highway construction project (Mexico City,
Mexico), 113–114
Hillman, James, 202–203
Hogans, 126f
Holland, John, 16
Holling, C. S., 21
Holmgren, David, xv
Homogenization of place, 34, 36
Housing density, 23, 180
Housing market collapse (2008), 47
Housing Vermont, 25
“How big is here?” question, 55–57
How Buildings Learn (Brand), 19
“How does here work?” question, 57–58
Hubs, gateways vs., 147–148, 148f
Hubbell Trading Post National Historic Site
(Ganado, Arizona), 125–129, 125f, 131
Hull, Miller, 108, 110
Humans:
“battles” with nature by, 9–10
colonization of system edges by, 160–161
as participants in evolution, 13–15
positive environmental impacts by, 154
Human capital, 95, 98
Humanistic psychology, 202
Human management practices, ecosystems
and, 82
Human organization, patterns in, 57–58
Human systems, guilds in, 89, 90
Hurricane Katrina, xxvi
Hyacinth macaws, 13

I
ID LIVE! festival, 185–186, 185f–186f
Illich, Ivan, 38
Illinois, 91–92
Imaging, capacity for, 150
IMEP (Integrated Metropolitan Environment Policy), 86
Improve (level of work), xxix–xxx
Incipience, mastery of, 209
Industrial Age, 10–11, 34
Infinite diversity, 69–70
Inherent potential, 123–124
Inner work:
  in regenerative development, 197, 202, 213–214
  and self-actualization, 202–203
Integrated Metropolitan Environment Policy (IMEP), 86
Interaction patterns:
  discovering, 56–57
  in living systems, 47–48
Interdependencies, in living networks, 156–158
International District (Albuquerque, New Mexico), 183–187, 193
Investor partners, 89, 93–94, 99

J
Jantsch, Erich, 216
Jefferson, Anne, xxvi
Jenkin, Sarah, xxvii
El Jobo project (La Palmilla, Mexico), 76f
  stakeholders in, 97–100
  vocation of place for, 73–77
  weaving together of people and place in, 76
Jones, Michael, 38
Jones Falls River, 163
Jordan, Martin, 104
Juluchuca, Mexico, 2–8, 2f–4f, 8f, 94
Juniper trees, guilds around, 89, 90f

K
Kahn, Sandra, 3, 4, 7
Kauffman, Stuart, 13, 84
Kemmis, Daniel, 159
Keylines, 160
Krishnamurti, Jiddu, 208
Krone, Charles, xv, 9, 139
Kunstler, James, 34
Kurl, Laura Valdez, 2

L
Laing, R. D., 211
Lake County, Illinois, 91–92
Lancaster, Brad, 119, 121, 131
Landry, Charles, 193
Las Vegas, Nevada, 40–44, 41f–44f
Las Vegas Valley Water Authority, 40
Laszlo, Kathia, 201
Latin America, ecosystem services in, xxi
Law of unintended consequences, 153
Layne, Tanya, 86, 88
Leaf-eating insects, California oaks and, 142
LEED program, 40
Legacy, vocation and, 78
Leopold, Aldo, vi, 70
Lerner, Jaime, 63, 65–66, 71, 153, 166, 167
Levels of work framework, xxviii–xxxi, xxviiiif
Leventhal, David, 3, 4, 7
Leverage:
  systemic, 168
  transformational, see Transformational leverage
LGA (architectural firm), 40, 145
Linear parks, 67f
Lions Gate Secondary Wastewater Treatment Plant (Vancouver, British Columbia), 104–110, 104f, 106f
Littleglobe, 184
Living Classrooms, 163
Living Mosaic (pattern), 52
Living networks, 156–167
  Baltimore Harbor as node in, 162–166
  design projects as nodes in, 172–174
  interdependencies in, 156–158
  natural flows and nodes in, 158–159
  recognizing nodes in, 160–162
  systemic change from nodal interventions in, 159, 166–167
Living pier, 165
Living Rooms at the Border (San Ysidro, California), 21–25, 22f, 31
Living systems, xv
  characteristics of, 15–19
  complexity of, 207
  evolution vs. entropy in, 10–11
  potential in, 118
  roles in, 138
  sustainability and adding value in, 62
Living system approach to place, 45–59
at Central Park (McAllen, Texas), 49–55
in Curitiba, Brazil, 66
essence patterns in, 48–49
guidelines for applying, 55–59
interaction patterns in, 47–48
nestedness patterns in, 45–47
Living systems enablers, 20
Local culture, place and, 35–36, 38
Local ecosystems, 66–67
Localism, cosmopolitan, 216
Locational definitions, of place, 58
Locke, Edward, 136
Los Angeles River, 14f
Lyle, John Tillman, xxii, 36
Lynne, Gillian, 123–124, 131

M
McAllen, Texas, 49–55, 54f
Maintain (level of work), xxix
Manageable uniformity, 70
“Man and the Biosphere Program,” 158
Mang, Nicholas, 184, 193, 202
Manhattan, New York, xxvi
Manzini, Ezio, 216
Margolin, Victor, 216
Mariposa project (Amarillo, Texas), 93–94
Maryland, Baltimore Harbor project, 162–166
Maslow, Abraham, 202
Mastery of incipience, 209
Maximum yield, 70
Meaning making:
  by design, 216–217
  place in, 38
  in regenerative development, 182
  and vocation, 63
Mechanistic model of nature, xxii–xxiii, 70
Mentorship, 87–88
Metabolic patterns, living networks as, 157–158
Metro Vancouver, 104–106, 108, 109f
Mexico:
  inspiration from Tijuana, 23, 30
  El Jobo project, 73–77, 76f, 97–100
  McAllen, Texas and Reynosa, 50
  Mexico City highway construction project,
  113–114
  Playa Viva Resort, 2–8, 2f–4f, 8f, 94
  Rio Sabinal restoration project, 169–172, 170f
  Mexico City, Mexico, 113–114
  Middle Kyle Canyon project (Nevada), 145–152, 145f–148f
Mikulski, Barbara, 81
Mindset:
  about change, 215–216
  about nodes, 168
  at beginning of project, 112–113, 117–119
  for goal setting, 137–138
  impact of changes in, 211
  for solving complex problems, xiii–xiv
Mollison, Bill, xv
Monocultures, 195
Montana, farmland development in, 114–115
Motion, systems in, 151
Muir, John, xxvi, xxvii
Mulroy, Patricia, 41
Museum of Modern Art, 22
Mutualism, co-evolving, 82–85

N
Narrow gazing, 208
National Aquarium, 165
National Park Service, 126, 128
Natural capital, 95, 98
Natural selection, 11–12
Nature:
  aligning with wisdom of, 30
  guilds in, 88–90
  humans’ “battles” with, 9–10
  two models of, xxii–xxiii, 70
Navajo Nation, 125, 127
Nestedness:
  of adding value, 18–19
  conceptualization in terms of, 145–152
  framework for discovering, 55–57, 56f
  in living systems, 45–47, 46f
  of potential, 129–130, 132
  of vocations, 72–73
Net positive design, 158
Networks, living, see Living networks
Nevada:
  Middle Kyle Canyon project, 145–150, 145f–148f
  Springs Preserve project, 40–44
Nevada State Museum, 40
New Mexico, 183–187, 193
New Mexico Humanities Council, 187
New Orleans, Louisiana, xxvi, 35f
Newton, Isaac, xxii
New York state:
  protecting Manhattan from weather disasters, xxvi
  Westchester housing project, 143–144
Niches, ecological, 84
NIMBY (Not-In-My-Backyard) reaction, 178
Nisbett, Richard, 208, 209
Node(s), network:
  Baltimore Harbor as, 162–166
  effective interventions at, 173
  and flows, 158–159
  mindset about, 168
  recognizing, 160–162
  regenerative projects as, 91
  sequencing change at, 169
  systemic change from interventions at, 159,
   166–167
  thinking about design projects in terms of,
   172–174
Not-In-My-Backyard (NIMBY) reaction, 178
Nowak, Martin, 11–12

O
Oneida culture, 207
Operate (level of work), xxix
Optimal yield, 70
Ordering process, 72
Oregon, potential in Portland, 115–117, 116f
Organisms:
  influence on environments of, 13
  as nodes, 161–162
Organizing process, 71–72
Origen Museum, 40
Orr, David, xxxii, 36, 37, 135
Outer dimension, of regenerative development,
   213–214
Oxygen, producers and consumers of, 17
Oyster reefs, xxvii

P
La Palmilla, Mexico, 73–78, 74f–76f, 97–100
Parenting, roles vs. functions in, 137–138
Parks, in Rio Sabinal restoration, 171–172, 172f
Partnerships:
  investor partners, 89, 93–94, 99
  with place, 38–44
  with stakeholders, 87–88, 93–94, 149–150
Patterns:
  core, 49–52
  culture and thinking, 208–210
  interaction, 47–48, 56–57
  metabolic, 157–158
Pattern literacy, 209–210
Pattern Mind (Glanzberg), 210
Pedestrian malls, 166–167

People:
  essence vs. gifts of, 124–125
  relationships of places and, vii, xxxi–xxxii
  vocations from iconic, 78
  weaving together place and, 76
Permaculture, xv, 169
Place(s). See also Living system approach to place
  at Central Park (McAllen, Texas), 49–55
  commodification of, 34–37
  commonwealth of, 94
  essence vs. gifts of, 124–125
  locational definitions of, 58
  partnering with, 39–44
  for Playa Viva Resort, 3–5
  in regenerative development, xxxi–xxxii, 37,
   215, 216
  relationships of people and, vii, xxxi–xxxii
  in Springs Preserve, 40–44
  transformational leverage associated with,
   37–39
  and value-adding roles of projects, 139–140
  vocations of, 63, 70–72
  weaving together people and, 76
Planning process, efficiency of, 193
Plato, 112
Playa Viva Resort (Juluchua, Mexico), 2–8, 2f–4f,
   8f, 94
Portland, Oregon, 115–117, 116f
Possibility, potential vs., 123
Potential, 111–133
  collective process for discovering, 194
  conceptualization based on, 177
  defined, 117–118
  in discovery phase of design projects, 112–114
  in Dunbar/Spring stormwater harvesting pro-
   ject, 119–122
  and essence vs. gifts of people and places,
   124–125
  and evolution, 117–119
  for evolution, 29
  and fields of caring, 205
  finding right level of, 132
  goals addressing, 151
  guidelines for engaging with, 131–133
  harnessing energy of, 132–133
  at Hubbell Trading Post National Historic Site,
   125–128
  inherent, 123–124
  nestedness of, 129–130, 132
  orientation toward, 114–115, 131–132
  in Portland, Oregon, 115–117
  in regeneration, 113
for systems, 128
and will, 135
working from, 117–122
Poverty, water quality and, 166
Pozas, 171
Prairie Crossing (Lake County, Illinois), 91–92
Predesign process, 140, 187–189, 194
Predictions, by designers, v
Preservation, see Protection and preservation approach
Pride, 58–59, 65
Proactive engagement, 181–182
Problem, defined, 117
Problem solving:
  - mindset for, xiii–xiv
  - as orientation to design, 111–112, 114–115, 194
  - in regenerative development, 118–119
Produced capital, 95, 98
Product, see Design product
Protection and preservation approach:
  - in Grand Tetons farmland development project, 115
  - and northern California retreat center, 129
  - partnering with place vs., 39–40
Protectiveness, over development projects, 177–178
Proximate whole, 56
Public engagement, 108, 109f, 189–190
Public hearings, 188
Public relations, 91, 189–190
Putnam, Robert, 84

Q
Quesada Gardens Initiative (San Francisco, California), xxx
Quigley Farm and Conservation Community, xxxii–xxxiii, 92–93
Quivira Coalition, xxix–xxx

R
Radial model of city, 67
Ramo, Joshua, 209
Reactivity, of activists, 178–179
Reality:
  - seeing deeper, 205
  - shaping, 211
Reciprocity, 88, 142, 194
Redevelopment project, in Brittany, France, 199–200, 199f
Red Queen’s dilemma, 71–72
Reed, Bill, 104–106, 108
Reflection, 211
Regenerate (level of work), xxx–xxxi
Regeneration, xxviii–xxx
  - by guilds, 91–92
  - and organizing process, 71–72
  - potential in, 113
Regenerative concepts, 142–144
Regenerative design:
  - aims of, vi–vii
  - developmental, 182–183
  - effects of, vii–viii
Regenerative Design for Sustainable Development
  (Lyle), xxii
Regenerative development:
  - blessed unrest in, 215–216
  - as co-evolutionary process, xvii
  - conceptualization in, 142–144
  - described, xiv–xv
  - designers in, xv–xvii
  - development projects in, 182–183
  - inner and outer dimensions of, 213–214
  - inner work in, 202
  - investor partners in, 93–94
  - place in, 37
  - and sustainability, xix, xx, xxvii–xxxiii
  - transformational leverage in, 155–156
  - vocations in, 62–64
  - wealth in, 94–97
Regenerative practitioners. See also Designer(s)
  Beatrice Benne, 198–200
  as change agents, 197–200
  conceptualization of projects for, 1–8
  demands on, 201
  inner work for, 213
  as systems actualizers, 203–204
  “three lines of work” framework for, xxxii–xxxiv, xxxv
  value-adding roles of, 140
Regenerative processes. See also specific topics
designing of, 103–110
  guidelines for shifting to, 150–152
  at Lions Gate Secondary Wastewater Treatment Plant, 104–110
Regenerative project(s). See also specific topics
councilors in, 177
  developmental processes in, xxxii–xxxiii
  goals of, see Goals of regenerative projects
  Playa Viva Resort as, 2–8
  practitioners’ thinking about, 1–8
  stakeholders in, 91–92
  value-adding roles of, 138–144
Regenesis Group:
Brattleboro Food Co-op project, 25–31
Central Park project, 50
developmental process of, xxxii–xxxiii
founding of regenerative development by, xiv, xv
Grand Tetons project, 115
Hubbell Farm project, 126
El Jobo project, 73, 74, 97
Las Salinas campus project, 189–192
Middle Kyle Canyon project, 146
nestedness framework of, 55–56, 56f
northern Arizona residential project, 174
Rio Sabinal restoration project, 170, 171
view of regenerative design at, xvii
Westchester housing project, 143–144
Relational engagement, 39–40, 92–93
Relationships:
mapping patterns of, 132
with nodes, 174
of people and places, vii, xxxi–xxxii
Relph, Edward, 49
Replicability, 154–155
Residency, 36
Resilience, xxv–xxvi
Responsibility:
co-responsibility, 182, 194
environmental, 68–69
The Responsible Business (Sanford), 125
Restoration:
ecological, 155
farm, 126–129
in Rio Sabinal project, 169–172
of riparian areas, 82, 83f
Restraints, potential orientation and, 131
Retreat center project (northern California), 129–130, 132
Revitalization, urban acupuncture and, 167
Reynosa, Mexico, 50
Rio Grande, 83f, 183
Rio Grande Delta (Rioplex), 50–52, 51f, 57
Rio Sabinal restoration project (Tuxtla Gutiérrez, Mexico), 169–172, 170f
Riparian areas, restoring, 82, 83f
Rivers. See also specific rivers
human efforts to control, 13, 14f, 53
in living networks, 157, 157f
Role(s). See also Value-adding roles
of design, vii
of design projects, vii, 30
functions vs., 137–138

Route 66, 183
Roy, Arundhati, 215
Royal Ballet School, 124

S
Sachs, Wolfgang, 195, 215
Safdie, Moshe, 48
Sahtouris, Elisabet, 12, 17
Saint-Exupéry, Antoine de, 205
Las Salinas campus (Viña del Mar, Chile), 189–192
Salk, Jonas, 198
Salt harvesters (Playa Viva Resort), 7, 7f
Sanford, Carol, 125
San Francisco, California:
Bayview-Hunters Point, xxx
Quesada Gardens Initiative, xxx
Santa Fe, New Mexico, 179–181, 194
San Ysidro, California, 21–25, 22f, 31
Sao Paulo, Brazil, 65
Sasaki Associates, 189
Sblendorio, Anthony, 143–144
Scale, of flows, 173–174
Self, 162, 212, 212f
Self-actualization, 202–204
Self-management, 204, 211–212
Selk-observing, 211–212
Self-remembering, 211–212
Separation, 85–86
Sequence of change, 169
7group, 104
Sierra Miwok tribe, xxvii
Slobodkin, Lawrence, xxi, 11
SMNRA (Spring Mountains National Recreation Area), 145, 146
Snyder, Christy, 184, 185
Social capital, 95, 98
Social programs, 15
Solution multipliers, 96–97
SOPI (Story of Place Institute), 184–185, 187
South Africa, 85–88
Southern Paiute tribe, 145, 148, 149
South Stadium neighborhood (Portland, Oregon), 116–117
Southwest (American), guilds in, 89, 90f
space2place, 108, 110
Speck, Jeff, 52
Spencer, Paula Underwood, 207, 209–210
Spirit of place, 48–49
Spring Mountains National Recreation Area (SMNRA), 145, 146
Springs Preserve (Las Vegas, Nevada), 40–44, 41f–44f
Stabilizing Nets (pattern), 52
Stakeholders, 81–101
  attracting, 100–101
  in Cape Flats Nature, 85–88
  co-evolving mutualism for, 82–85
  defined, 92
  development projects with, 194–195
  guilds of, 88–92
  as investor partners, 93–94
  in El Jobo project, 97–100
  nested vocations for, 72–73
  partnerships with, 149–150
  in regenerative projects, 91–92
  and scale of flow, 173
  sustaining of projects by, 81–82, 182
  and wealth, 94–97
Stakeholder alignment, in predesign process, 188–189
Stakeholder engagement:
  in Curitiba, Brazil, 69
  in Lions Gate project, 107, 108
  proactive vs. co-creative, 181–182
  transactional vs. relational, 92–93
Stakeholder systems actualization:
  in Cape Flats Nature project, 85–88
  in regenerative development, 84–85
  and transactional vs. relational engagement, 92–93
Steady-state equilibrium, xxiv
Story curation program, 187
Story of Place Institute (SOPI), 184–185, 187
Story Plaza Garden, 187
Success, measures of, 195
Survival, as driving force for sustainability, xx–xxi
Sustainability, xix–xxxiv
  as byproduct of vocation, 62
  defined, xxi–xxvii
  in ecological design, vi
  leveraging practices for, 154–155
  in Portland, Oregon, 115–117
  in regenerative development, xxvii–xxxiii
  survival as driving force for, xx–xxi
  and “three lines of work” framework, xxxiii–xxxiv
  and two models of nature, xxii–xxiii
Sustainability movement, xix
Sustainability planning, 61
Sustainable community development, best practices in, 33
Sustainable design, 21, 112
Sustainable Performance Institute, 193
Suzuki, David, xxiii, xxxii
System(s). See also Ecosystems; Living systems
costs and consequences of, vii
  developing, 203
  edges of, 160–161, 161f
effects of small interventions on, 155–156
  energy, 168
  in motion, 151
  potential for, 128
  relationships of nodes in, 174
  of stakeholders, 82, 84–85, 91
  value-adding roles in, 140–142
  vocation in, 63
  wealth in complex, 21
Systems actualization, 201–214
  awakening caring for, 205–207
  developmental aims for, 203–212
  honoring complexity for, 207–210
  and inner/outer dimensions of regenerative development, 213–214
  and inner work in regenerative development, 202
  management of one’s being for, 211–212
  self-actualization vs., 202–203
  for stakeholder systems, 84–88, 92–93
Systems actualizers, 203–204
Systemic change, 159, 166–167
Systemic health, 45
Systemic leverage, 168

T
Table Mountain, 86
Tactical urbanism, 167
Talent, uniqueness vs., 124–125
Taniguchi, Cassio, 68
Taxi drivers, in Curitiba, Brazil, 72
Technology(-ies):
  addressing complex problems with, xiii–xiv
  identifying appropriate, 195
Teenagers, potential of, 118–119
Tending the Wild (Anderson), 39
Texas:
  Central Park project, 49–55, 54f
  Mariposa project, 93–94
Thackara, John, 2
Themes, in design process, 105, 107
Thinking:
  about design products, 1
  about regenerative projects, 1–8
  anchoring, to future, 100
  “being” vs. “function,” 150–151
  end-state, 144
Thinking (continued)
   engagement and changing, 211
   influences of culture on, 208–210
   roles-based, 138

“Three lines of work” framework, xxxiii–xxxiv, xxxv

Tijuana, Mexico, 23, 30
Toco toucan, 13
Tract housing, 34f
Trajectory, vocation and, 77–78
Transactional engagement, 91–93
Transformational leverage, 153–174
   and concept of living networks, 156–167
   of grassroots movements, 167
   and place, 37–39
   in regenerative development, 155–156
   and replicability fallacy, 154–155
   in Rio Sabinal restoration project, 169–172
   and sequencing of change, 169
   systemic, 168
   and thinking about design projects in terms of
   nodes, 172–174
Transition Movement, xxix
Transit-oriented development, 173
Transparency, 108, 192
Trash:
   in Baltimore Harbor project, 163–165, 163f–165f
   in Curitiba, Brazil, 69
Trees, value added by, 17–18, 18f
Tucson, Arizona, 119–122, 120f, 121f
Turtle sanctuary (Playa Viva Resort), 6, 6f
Tuxtla Gutiérrez, Mexico, 169–172, 170f

U
Uncertainty, 201
Understanding, 150–151
UNESCO, 158
Uniformity, manageable, 70
Unintended consequences, law of, 153
Uniqueness:
   and conventional sustainability planning, 61
   respecting, 195
   talent vs., 124–125
United Nations, xxiv, 96
U.S. Forest Service, 145, 146, 148, 149, 152
U.S. Green Building Council, 40
University of Las Vegas DesertSol Solar House, 40
University of New Mexico School of Architecture
   and Planning, 184
Unpredictability, 21
Urban acupuncture, 156, 167
Urban design, 24
Urban ecology, cities in, 158
Urban Garden (theme), 105
Urbanism, 65–67, 167
Urban Learning Group, xxii
Urban metabolism school, 158
Users, in design process, 103

V
Valley Yokut tribe, xxvii
Value(s):
   adding, see Adding value
   increasing capacity to generate, 30–31
   of restraints, 131
   sharing project’s, 194–195
Value added (term), 139
Value-adding roles:
   and conceptualization in regenerative develop-
   ment, 142–144
   and goals of regenerative projects, 137–138
   for Living Rooms at the Border project, 25
   for Middle Kyle Canyon project, 145–150, 147f
   in natural systems, 140–142
   of regenerative projects, 138–144
Vancouver, British Columbia, 104–110, 104f, 106f
Van der Ryn, Sim, v–vi
Vermont, 25–29, 26f, 28f, 31
Viability, value creation and, 17–18
Villafranca, Raul de, 73–76, 78, 97–100
Viña del Mar, Chile, 189–192, 190f–191f
Virtuous cycles, 18
Vitalization, from energy fields, 206–207
Vocation(s), 61–79
   applying, to design, 77–79
   in Curitiba, Brazil, 64–69
   in El Jobo project, 73–76
   nested, 72–73
   in regenerative development, 62–64
   as source of direction, 62–64, 69–70, 78–79
   sustainability as byproduct of, 62
Vocation of place:
   direction from, 78–79
   discovering, 77–78
   in El Jobo project, 73–77
   in regenerative development, 70–72

W
Wahl, Daniel, 45
Waldrop, Mitchell, 16
Walker, Stuart, vii
Waterfront Partnership of Baltimore, 162, 163
Water quality, poverty and, 166
Water stress, xxi
Water use, at Springs Preserve, 40–43
Wealth, 94–97
   in complex systems, 21
   and direction, 70
   five capitals framework of, 95–97, 96f
Web of life, 156
Weil, Simone, 38
Well-being, genuine wealth and, 95
Westchester, New York, housing project in, 143–144
Western Cape, South Africa, 85–86
Western cultures:
   atomizing bias in, 207
   thinking patterns in, 208–210
Wetlands platforms, 163–165, 163f–165f
“What kind of here is this?” question, 58–59
Wheatley, Meg, 210
Whole Foods, 27
Wildcat, Daniel, xix, xxxii
Wilderness, 39
Wildlife corridors, 82, 83f
Will:
   and agency, in regenerative development, xiv–xv
   leveraging of, 68–69
   and potential, 135
   in regenerative development, 182
Windham and Windsor Housing Trust, 25
Working from potential:
   Dunbar/Spring stormwater management project, 119–122
   in regenerative development, 117–119
Work in progress, being, 211–212

Y
Yellowstone National Park, 140–142, 141f, 151, 156
Yield, maximum vs. optimal, 70
Ysidro Sin Limites workshops, 23
Yucatan peninsula, 47–48

Z
Zari, Maibritt Pedersen, xxvii
Zoning, 23, 180