

# Index

Page numbers for illustrations are printed in boldface.

- Abercrombie, Patrick, 30  
Adams, Thomas, 58–59  
Adelaide, 31, 32,  
Advisory Commission on Regulatory Barriers to Affordable Housing, 181  
Advisory Committee on City Planning and Zoning, 59  
Agora, 11–12  
Agrimensores, 26–27, **27**, 33  
Alleys, 20, 30, 82, 144  
Al-Ukhuwwah, Ibn, 16  
Amazon River, ix  
American Association of Highway Officials, 40  
*American City, The*, 52  
American City Planning Institute, 53, 58  
American city planning movement, 49  
American Housing Survey, 136  
American Institute of Architects, 53  
American Planning Association (APA), 174, 177, 181  
American Public Health Association (APHA), 67  
American Rivers, 109, 118  
American Society of Civil Engineers, 40, **44**  
American Society of Planning Officials, 104  
Amsterdam, 88  
Apple Macintosh, 159  
Arab-Islamic performance-guided norms, 22  
Aristotle, 11  
Arthur, Brian, 92–93  
Ascalon, 15, **16**  
Asian Air Survey, 159  
Athens, 23, 25  
Augustus Caesar, 14  
Australia  
  Adelaide, 31, **32**, 179  
  Christie Walk, 179  
  sewage, 85  
  surveying, 31  
Automobile, 38, 41, 145, 179  
  electric, 145  
  Institute of Transportation Engineers, 42–43  
  street standards, 176  
  subdivision regulations, 60  
Babylon, 80  
Baer, William, 175  
Baroque, 26–27  
Barton, Stephen, 134, 136  
Bastides, 21  
Beder, Sharon, 94  
Belmont, Virginia, 142, 143, **143**, 144  
Bemis, Albert, 102  
Berlier vacuum system, 89, **90**  
Berlin, 27, **28**, 54, **82**  
Best-management practices (BMP), 120

- Best practices, 179  
 Betamax, 93  
 Black Rock City, Nevada, 4, **5**, 24  
 Blakely, Edward, 134, 135  
 Blocks, 7, 10, 34, 54–57  
   London, 31  
   Los Angeles, **158**  
   railroad towns, 37  
   subdivisions, 66–67  
 Book of Changes, 10  
 Boston, **51**, **56**, **79**  
   atlas, 157  
   civil engineers, 40  
   fires, 99  
   housing, **51**, **56**, **79**, 104  
   sanitation, 86  
   1875 Mayor's Commission on the Sanitation Conditions, 87  
 Boulogne-sur-Mer, 21  
 Britain. *See also* England  
   Health Act of 1848, 84  
   Royal Institute of British Architects, 31  
 Building Act of 1844, 29  
 Building Acts, 29, 84  
 Building industry, 174  
 BUILT-IT, 160  
 Burnham, Daniel H., 38  
 By-law period, 31  
 Byzantine Palestinian, 15  
 Byzantium, 15  
  
 California, xi  
   associations, 134  
   private communities, 141–142  
   University of, Berkeley, 155  
   University of, Los Angeles, 157  
   Village Homes, 122  
 Car. *See* Automobile  
 Cardo, 13, 14  
 Carthage, 13  
 Case studies, xvi  
  
 Caterpillar, 127  
 Catherine the Great, 27  
 Cavys, Sam, 117  
 Chadwick, Edwin, 84, 86  
 Chance Helical Pier Foundation, 126  
 Chang'an, 6, **10**  
 Chautauqua, New York, xii  
 Cheng, 9  
 Chicago  
   City Club, 62  
   national competition for a quarter section (neighborhood plan), 62–64  
   School of Sociology, 63  
   sewer, 89–90  
   World's Columbian Exposition, 47, 90  
 Children, 61, 69  
 China  
   Ancient planning, 8–10  
   Land measurement, 6  
   Private communities, **136**  
   subdivisions, 173  
   waste, 78, 86  
 Cicero, 14  
 Cities Alliance, 178  
 Citizen Envisioning Task Force, 165  
 City Beautiful Movement, 47, 52–53  
*City of Quartz*, 135  
 City Simulator, 157  
 Civil engineers, 25, 31, 40, **44**, 176  
 Clean Water Act (CWA), 96, 102, 124  
 Clearinghouses, 179–180  
 Cleveland, Moses, 36  
 Cleveland, Ohio, 36, 37  
 Cloaca Maxima, 80, 81  
 Cluster housing, 130, 139, 141–142, 151  
 Coastal Nonpoint Pollution Control Program, 124  
 Coastal Zone Act Reauthorization Amendments (CZARA), 124  
 Cold War, 93  
 Colonial powers, 19, 27, 31

- Colonialism, 26  
 Comfort, 41, 65  
 Committee on City Planning and Zoning, 59  
 Committee on Planning for Residential Districts, 59  
 Common-Interest Communities (CIC), 114, 133–136, **137**, **142**, 188  
 Community Association Institute Survey, 136  
 Community Preservation Act, 114  
 Community Viz software, **164**  
 Comprehensive Permit Law, 114  
 Computer-aided design (CAD), 156  
 Computer-augmented environments (AR), 160  
 “Computer for the 21st Century, The,” 159  
 Conference on Home Building and Home Ownership, 58, 65  
 Confucian, 9  
 Congress, 47, 95, 97, 124  
 Connecticut Land Company, 36  
 Continental Congress, 35  
*Control of Communicable Diseases in Man*, 68  
 Cooley, Charles, 61  
 Courts, 11, 14, 73, 82, 129  
 Courtyard, 14, 22, 142  
 Cowan, Robin, 93  
 Cowan, Stuart, 101, 102  
 Cozco, Peru, **29**  
 Cul-de-sacs, xvi, 42, 73  
  
 Danielsen, Karen, 135  
 David, Paul, 94  
 Davis, California, 135  
 Declaration of Covenants and Restrictions for the Island, 145  
 Decumanus, 13, 14  
 Density  
   Egypt, 7  
   England, 30  
   Federal Housing Administration, 69  
   private developments, 129, 138, 140–141  
   sewer, 96  
   subdivisions, 112–113, 148  
   visualization, 183–184  
 Department of Agriculture, 35  
 Depression, 39, 59  
 de Souza, Antonio Luis, 27  
 Design criteria, 177  
 “Design immunity,” 129  
*Design of Residential Areas*, 58  
 Developers, xix, 101, 104, 107–113, **111**, **113**, 123, 129, **139**  
   CICs, 134–135  
   Federal Housing Administration, 70–71, 73  
   private development, 138–140, 144–145, 147–149  
   protection of nature, 144–145  
   standards, 68  
   stormwater, 121–122  
   wastewater-treatment, 98  
 Disabilities Act, 102  
 “Disposal of Waste in the Ocean, The,” 91  
 Doctorow, E. L., 151  
 Dordrecht, 88  
 Doxiadis Associates, 23, 25  
 Drainage. *See* Water  
 Dresden, 27  
 Drummond, William, 63  
 Duany Plater-Zyberk & Company, 183  
 Duany, Andres, 175  
 Dvorak keyboard, 94  
  
 E/One Sewer systems, 169  
 Earthworks, 117–118, 125, **125**, 126  
 Ecology, 115, 120, 174  
 Economics, xv–xvi, xx, 35, 102, 176, 179, 188  
   Depression era, **44**, 57–59  
   developments and CICs, 124, 133, 136–137

- Economics (cont.)  
 Europe, 26, 33–34  
 Federal Housing Administration, 71–72  
 improvements, 106  
 nature protection, 145  
 private development, 138, 144  
 Progressive era, 49–50, 53  
 waste/water disposal, 85–86, 88, 91, 98–99, 121  
 Economist, 137  
 Edge City, 135  
 Edinburgh, 21  
 Education, 31, 40, 68, 115, 174  
 Egyptians, 6  
 Eisenhower, Dwight D., 167  
*Elements of Sanitary Engineering*, 87  
*Engineering Magazine*, 86  
 Engineering (Engineers), 89, 115, 128  
 175–176, 178, 182  
 Neighborhoods, 62  
 Profession, 28, 31, 40–41  
 Reforms 169, 176–178  
 Sanitation, 77–78, **78**, 80–81, **81**, 87, 90–91, 93–96, 99  
 Stormwater, 120  
 Surveying, 25–26  
 Traffic and Transportation, 42–43, **44**, 109, 176  
 Urban Planning, 53, 110  
 England, 13, 27, 31, 55, 61, 89, 90, **90**  
 Environmental Protection Agency, 96, 124  
 Environmental Simulation Laboratory (ESL), 155  
 Environment and Discovery Collaboratory (EDC), 160  
 Euclidian zoning, 175  
 Euphrates, 6  
 Europe, xiv  
 CICs, 137  
 medieval, 16, 19–22, 26, 54, 81  
 Rome, 38, 88  
 sanitation, 81–82, 85, 88, 91  
 Evaluation, 98, 103, 145, 178  
 Far East, 9  
 Federal aid, 39  
 Federal Highway Act, 39  
 Federal Highway Program, 95  
 Federal Housing Administration (FHA), 70, **72**, **172**  
 Federal Water Pollution Control Act, 95  
 Fina, 17, 19, **20**  
 Fire, 3, 29–30, **30**, 38, 60, **83**, 84, 99, 170–171, 182–183  
 First National Conference on City Planning, 47  
*First Report of the Commissioners of the State of Large Towns and Population Districts*, 84  
 Fishman, Robert, xiv  
 Follett, Mary Parker, 61  
 Ford, George, 52  
 Forma, 26  
 France, 21, 27, 88–89  
 Franco–Prussian War, 53  
 Franzese, Paula, 135  
 Free Water Surface Systems, 169  
 Garden cities, 60–61  
 Garreau, Joel, 135  
 Garvin, Alexander, 175  
 Gated communities. *See* Common-Interest Communities  
 General Board of Health, 84–85  
 General Electric, 94  
 General Motors Futurama, 151, **152**  
 German, 47, 53, 55–56  
 Geographic information systems (GIS), 157, 159, 164  
 Global Positioning System (GPS), 126, **126**, 127

- Grading. *See* Earthworks
- Greco, Mike, 165
- Greece, 11, 23
- Gresham College, 33
- Grid, 31, 53, 60  
 Australia, **32**  
 China, 6, 9–**10**  
 FHA, 73  
 Rome, 13, 26  
 Saudi Arabia, 22–23  
 United States of America, 35–39, **41**
- Grid pattern, 10, **32**, 73.
- Groma, 26, **27**, 34
- Growing Smart Legislative Guidebook: Model Statutes for Planning and the Management of Change*, 177
- Gunter, Edmund, 33, **34**
- Gunter's chain, 31, 33, 35–36, **37**
- Habitat for Humanity, 147
- Habitat Review Board, 145–146
- Habitat Review Guidelines, 145, **146**
- Hakim, Besim, 19
- Handbuch des Städtebaue*, 54
- Harappa, 7
- Haverfield, Francis John, 38
- Health. *See also* Water  
 American Public Health Association, 66–68  
 Early zoning, 53  
 Europe, 54–55  
 Density, 58  
 London, 28–29  
 Model Subdivision Regulations, 59  
 Streets, 32, 55  
 Tenements, 48, 49–50
- Hering, Rudolph, 77, 91
- Hobbes, Thomas, 4
- Hoover, Herbert, 57–58, 65
- Housing  
 Acts, 70, 71, 74  
 Cost and affordability, 107, 114, 168, 179, 181  
 Developments, 179  
 FHA, 65–67, 72–73  
 Reforms, 48–49  
 Tenements, 48, 49–50  
 Housing and Home Finance Agency, 104  
*Housing for the Machine Age*, 65  
 Howard, Ebenezer, 61  
 Howe, Frederic C., 49, 53, 55  
 HUD report, 115, 184
- I Ching*, 10
- Identity, 19, 66, 137
- Illinois, 114
- Illuminating Clay, 161–162, **161**
- Inam, Aseem, 112
- Indianapolis, 38
- Indus, 6–7
- Indus Valley, 7
- Infrastructure, 109, 113, 117–119, 168–169, 182  
 CICs, 134–135  
 Development, 146  
 Standards, 42, 103, 106  
 Wastewater, 78, **79**, 80, 89, **92**, 99, 118, 121–122, 169
- Innes, Judith, 162
- Institute of Transportation Engineers (ITE), 40, 109, 177
- International Building Code, 175
- International City Managers Association, 77
- International Code Council (ICC), 171
- International Private Sewage Disposal Code (IPSDC), 171
- International Property Maintenance Code (IPMC), 171
- International Residential Code (IRC), 171
- International Urban-Wildland Interface Code (IUWIC), 171
- International Zoning Code (IZC), 171

- Internet, 114, 157, 179, 184, 185  
 Intersections, 20, 41  
 Ireland, 21  
 Irvine Company, 141  
 Islamic cities, 16–17, **18**, 19, 33, 45  
 Islamic Law, 16–17  
  
 Japan, 9–10, 158–159  
 Jennings High School, 117  
 Jerrybuilders, 71  
 Jerusalem, 80  
 Jiangren, 9  
 Julian of Ascalon, 15, **16**  
  
 Kahun, 7  
 Kamnitzer, Peter, 158  
 Kansas City, Country Club District, 102  
 Koran, 16  
 Kostof, Spiro, xiv, 26  
 Krieger, Alex, 175  
 Kyongju of Shilla, Korea, 10  
 Kyoto, Japan, 10  
  
 Lake Michigan, 89  
 Land division, 26  
 Land use, 53, 129, 176, 177, 183–185  
   Byzantium, 15  
   CICs, 114, 133, 142  
   Islamic cities, 16  
   standards/regulations, xv, 109, 167–168, 181, 187–188  
   surveying/decisions, 35, **164**, 181  
   water treatment, 95  
*Land Use and the Pipe*, 77  
 Land-use patterns, 35  
 Lang, Robert, 135–136  
 Laws, 4, 102, 113, 183, 188  
   Ancient Era, 6  
   Colonial Era, **29**, 31  
   FHA, 71  
   Greece and Rome, 11–14  
   health, 68, 77  
   medieval, 21, 27  
   planning, 52, 53, 60, 71, 170, 177  
 Laws of the Indies, 27  
 Letchworth and Hampstead Garden Cities, 61  
 Levine, Jonathon, 112  
 Leyden, 88  
 Liability, 42, 98, 129, 130, 140, 171  
 Liebowitz, S. J., 93  
 Liernur system, 88–89, **90**  
 Liverpool, 84  
 Living Machine, 96–98, **97**, 169  
 Local agencies, 42  
 Local Board of Health, 85  
 Local controls, 58, 180  
 Local governance, xi, xv, xix, 39, 45–49, 74, 104, 119, 134–135, 148, 170, 180–185  
 London, 19, 29–31, **30**, 33, 82–84, **83**, 86, 137  
 London's Great Fire, 29  
 Los Angeles, 134, 157–158, **158**, 163  
 Luminous Table, **154**, 160, 162  
 Luoyi, 9  
  
 Malik of Medina, 17–19  
 MapJunction3D, 157  
 Margolis, Stephen, 93  
 Market demand, **105**, 142, 148  
 Maryland, 122  
 Massachusetts, 36, 59, 104, 113, 183  
 Massachusetts Act, 60  
 Massachusetts Institute of Technology, 160, 178  
 McKenzie, Roderick D., 64, 134–135, 148  
 Mecca, 22  
 medieval. *See* Europe  
 Medina, 17  
 Mediterranean, 15–17, **16**, 38

- Merriman, Mansfield, 87  
 Metropolitan Building Act, 29  
 Microsoft Windows, 159  
 Middle Ages, 38  
 Military, 13, 21, **21**, 38, 40, 157  
 “Minimum Requirements & Desirable Standards,” 72  
 Mitchell, William, 151  
 Model Subdivision Regulations, 59  
 Moffett, James, 73  
 Mohenjo Daro, 7  
 Moral Hazards, 68  
 Mori Corporation, 159  
 Mumford, Lewis, xiv, 34
- Nara, Japan, 10  
 NASA, 35  
 National Association of Home Builders (NAHB), **103**  
 National Association of Real Estate Boards, 71  
 National Board of Health, 91  
 National Building Code, 170  
 National Conference on City Planning, 52  
 National Conference on City Planning and the Problem of Congestion, 47–49  
 National Conservation Bureau, 40  
 National Environmental Policy Act, 155  
 National Housing Act, 70  
 National Onsite Wastewater Recycling Association (NOWRA), 98  
 National Planning Conference, 53  
 National Pollutant Discharge Elimination System (NPDES), 124  
 National Urban Runoff Program, 119  
 Native Americans, 35  
 Natural Resources Defense Council, 109, 118  
 Neighborhoods. *See* chapter on neighborhoods  
 FHA, 58
- London, 30  
 Riyadh, 22  
 streets and traffic, 41–43  
 zoning, 56–57  
 Neighborhood Unit, 64–69  
 Columbus Ohio, 64  
 Plan, 63  
 Nelson, Robert, 134  
 Neoclassic, 47  
 Nero, 14  
 Nevada, 3, **5**  
 New Jersey, 61  
 New South Wales, 31  
 New Spain, 27  
 New towns, 21, 67  
 New urbanism, xiv, 114, 174, 183  
 New World, 21  
 New York, **xi**  
 American Public Health Association (APHA), 67  
 Brooklyn, **92**  
 Civil engineers, 40  
 Fire (codes), 170  
 Garden cities, 61  
 Regional plan, 52–53, 65  
 World’s Fair, 151, **152**  
 zoning, 175  
*New York Times*, 85  
 New Zealand, 31, **32**  
 Nichols, Jesse Clyde, 102, 133  
 Nightingale, Florence, 91  
 Nile, 6  
 Norms, 4, 15, 16, 22–23, 182, 188  
 Islamic, 16, 45  
 social, 3–4, **5**, 6–7, 19, **20**, 24  
 standards, xviii  
 North Africa, 13  
 North America, viii, 21, 67  
 Northern Italy, 38  
*Not in My Back Yard: Removing Barriers to Affordable Housing*, 181

- Olmsted, Frederick Law, Jr., 53, 101  
 Oregon, 183  
 Orton Family Foundation, 164–165
- Paris, 19, 85–86, 89  
 Parker, Barry, 61  
 Parking, 109, 112, 117, 118, 121, 123, 133, 141, 151, 154, 185  
 Pedestrians, **ix**, 42–43, 68, 123, 139, 174  
 Pennsylvania Shade Tree Law, 117  
 Performance-based codes, 16  
 Performance standards, 16, 43, 45, 98, 185  
 Pergamon, 12, **12**  
 Perry, Clarence, 64–69  
 Peter the Great, 27  
 Philbrick, Edward, 86–87  
 Phillips, John, 82  
 Pioneer Institute for Public Policy Research, 104  
 Planned unit development, 168  
*Planning Neighborhoods for Small Houses*, 66, 72  
 Planning the neighborhood, 67–69  
 Plato, 11–12  
 Polya process, 92  
 Polybius, 38  
 Portugal, 27  
*Practice of Low Impact Development, The*, 123  
 President Hoover's Conference on Home Building and Home Ownership, 58  
 Prince George's County, 122  
*Principles of Scientific Management, The*, 51  
 Privacy, 16–17, 137  
 Private streets, 142  
 Privatization, 148  
 Professionals, xx, 64, 125, 129, 172, 176–177, 180, 182  
 FHA, **172**  
 organizations, 31, 40, 95, 177  
 planning/development, 29, 47, 49, 58, **66**, **67**, 69, 153  
 private, 138  
 standards/Regulations, xiv–xv, xviii, 25, 28, 42–43, 70, 101, 167, 169, 177  
 Provence, 38  
 Prussia, 53  
 Public Health Act, 55, 84  
 Punjab, 7
- Railroads, 29, 40, 56  
 railroad companies, 37, **41**  
 railroad towns, 37  
 Rappaport Institute for Greater Boston, 104  
 Real estate, x, 71–73, 174  
 Rectangular land survey, 35–36  
*Regional Plan of New York and Its Environs*, 65  
*Regional Plan of New York*, 69  
 Regional plans, 52, 174  
 Renaissance, 26–27  
*Report on the Sanitary Conditions of the Labouring Population of Great Britain*, 84  
 Residential street, 41–43, 73  
 Residential street standards, xvi, 42, 55  
 Revolutionary War, 35  
 Rhine Valley, 38  
 Rhodesia, 31  
 Right-of-way, vi, xvi–xvii, 42, 55, 65, 109  
 Riis, Jacob, 61  
 Riyadh, 22, 22, 25  
 Road work, 36  
 Roads. *See* Streets  
 Rogers, Peter, 77  
 Roman, xiv, 13–14, 19, 26, **27**, 38, 80–81  
*agrimensores*, 26–27  
 camp, 38  
 Empire, 19, 38, 81  
 public laws, 14  
 Rome, 13, 80, **81**, 88  
 Roosevelt, Theodore, 50  
 Rosen, Christine, 99  
 Royal Charter, 31  
 Rural, 31, 39, 165, **172**, **183**



- Russell Sage Foundation, 64  
 Russia, 27, **28**
- Safety, xii, xiv, xvi, 4, 11, **30**, 41, 59–60, 70, 105, 113, 171  
 Sanchez, Thomas, 136  
 San Francisco, 38, 155, **156**  
*Sanitary Engineer and Construction Record*, 86  
 Saudi government, 22–23  
*Scientific American*, 91  
 Scientific City, 52  
 Scientific management, 52  
 Seaside, Florida, 114  
 Seattle's pilot Street Edge Alternatives (SEA Street), 122, 123  
 Secretary of Commerce, 59  
 Seidel, Stephen, 106, 108, 113, 148  
 Selden, George B., 39  
 Sewer. *See* Water  
 Shapiro, Michael, 77  
 Sharia, 16  
 Sharp, Granville, 25  
 Shin Huang-Ti, 6  
 Shone Hydro-Pneumatic system, 89, **90**, 151  
 Sidewalks, 8, 55, 58, 69, **111**, 121, 183  
 Siena, 21, **21**  
 Silchester, 13  
 Silverman, Carol, 134, 136  
 Sitte, Camillo, xiv  
 Slums, 47, **48**, 59, 61  
 SmartCode, 183  
 Smart communities network, 180  
 Smart growth, 184  
   Smart Growth America, 109, 118  
 Snyder, Mary, 134, 135  
 Social behavior, 17, 19, **20**, 27, **28**, 43  
 Social interaction, 17  
 Social norms, 3–4, 6, 19, 24  
 Suq, 16  
 South Africa, 31, 137  
 Southampton, 84
- Spanish laws of the Indies, 21  
 Special Provision Applying along District Boundaries, 175  
 Sprawl, xiii, 104, 137, **138**, 167, 177, 182  
 St. Petersburg, Russia, **28**  
*Standard City Planning Enabling Act* (SCPEA), 58  
 Standard methods  
   for examination of air, 68  
   for examination of milk, 68  
   for examination of water and sewage, 68  
*Standards for the Insurance of Mortgages on Properties Located in Undeveloped Subdivisions*, 71  
 Standard Zoning Enabling Act, 168, 184  
 St. Louis, 62  
 Stormwater, 80–81, **81**, **85**, 110, **111**, 118–124, **120**, 128, 140, 145, 179  
 Streets, xvi, 118, 121, **123**, 126, 154, 183  
   Baroque, 26–27  
   China and Japan, 9–10  
   CICs, 145–146  
   City planning, 54–55  
   FHA, 68–69  
   Greece, 11, 13  
   Grid and Surveying, 22, 35–36  
   Hierarchical, 39  
   India, 7–8  
   Islamic Cities, 16–17, 20, 22  
   London, 29–31  
   medieval, 21  
   Neighborhoods, 60–61, 65  
   Residential, 42–43  
   Rome, 13–14  
   Standards, xvi, 42, 55, 139–140, **143**, 144, 177, 183  
   Streetscape, 183  
   Structure, 31, 49, **57**, 63, 99, 102, **113**, 114, 141, 147  
   Stübben, Josef, 54  
 Subdivision Layout Subcommittee, 59

- Subdivisions, xv, xvii, 13, **44**, 102, 114–115, **173**  
 CICs, 138–141, 144, 149  
 developers, 107–109, 110, 128–129  
 FHA, 67, 71, 73  
 law and regulations, 60, 106–108  
 planning, 54, **57–58**  
 Subdivision Street Requirements, 143  
 Suburbanization, xiii, 23, 26, 49, 66–67, **67**, 70, 151  
 Suitability, 7, 102, 176, 178–179  
 Surveying, xviii, 13, 102  
 Africa, 31  
*agrimensores*, 26–27, **27**, 33  
 Baroque, 26  
 Cleveland, Moses, 36–37  
 Colonization, 28  
 Early subdivision, 56–57, **57**  
 GPS, 127  
 Grid, 38  
 Gunter's chain, 33  
 Oceania, 31  
*Ordinance for Ascertaining the Mode of Disposing of Lands in the Western Territory*, 35–36  
 Professional Organizations, 31  
 Renaissance, 26  
 Roman, 13, 38  
 Swiss Federal Institute of Technology, 160  
*Sydney Morning Herald*, 85
- Tabors, Richard, 77  
 Tangible user interface (TUI), 160  
 Taylor, Frederick Winslow, 51–52  
 Technology, 24, 93, 178  
 Gunter's chain, 36  
 planning, 47, 157, 160  
 regulations, 50  
 wastewater disposal, 79–80, **79**, 85, 88, 91, 94–95  
 Tel-El-Amara, 7
- Thatcher, Prime Minister Margaret, 137  
 Thirteen Colonies, 35  
 Tiber River, 80, **81**  
 Tigris, 6  
 Traditional Neighborhood Development  
 Street Design Guidelines, 177  
 Traffic, 161, 176, 182  
 FHA, 73  
 lanes, xvi, 8, 20, 30, 143, 151, 177  
 planning, 54, 65, 69  
 Rome, 14  
 Traffic Engineering, 39–43, 140  
*Traffic Engineering Handbook*, 41  
 Transit-oriented design, 112  
 Transportation engineering, 40  
 Triangle Shirtwaist Factory, 170
- Uniform Building Code of 1927, 170  
 Uniform Fire Code, 183  
 Union Pacific, 37, **41**  
 United Nations Habitat, 179  
 Unwin, Raymond, 61  
 Urban area, xiii, 45, **56**, 70, 112, 120, **120**, 128  
 Urban conditions, early 20th century, 84  
 Urban Land Institute (ULI), 77, 107  
 Urban Simulation Team, 163  
 U.S. Department of Agriculture, 35  
 U.S. Department of Energy, 179  
 U.S. Department of Housing and Urban Development, 179  
 Regulatory Barriers Clearinghouse, 179  
 U.S. Housing and Home Finance Agency, 104  
 U.S. National Aeronautics and Space Administration, 35  
 Use Regulations and Special Provision, Supplementary, 175
- Vale, Larry, xiv, 174  
 Van der Ryn, Sim, 101–102

- Vedas, 7
- Vehicles. *See* Automobile
- Vietnamese, x
- Villages, x, 7, 19, 79, 87, **173**, 174
- Virginia, 36, 142–143, **143**
- Virginia Department of Transportation (VDOT), 143
- Virtual reality, 156–159, 165
- Visual Interactive Code (VIC), 185
- Visualization, 152, 157, 163–164, **164**
- Vitruvius, Marcus Pollio, xiv, 14
- Wales, 21, 31
- Walking, 65, 69
- Walls, 136, 158
- Greece, 11–12
- Islamic cities, 17
- London, **30**, 83
- medieval, 20, 21
- Roman, 14
- Waring, George E. Jr., 88, 90
- Washington, DC, 38, 49
- Washington state, 98
- Wastewater. *See* Water
- Water, 7, 8, 9, 68, 84–85, 94
- runoff, Drainage, 13, 15, 17, 88
- stormwater, 80–81, **81**, 110, **111**, 118–124, **120**, 128, 140, 145, 179
- Quality Act, 119
- waste, 78–79
- Web3d, 157
- Weiser, Mark, 159
- West Point, 40
- Western Australia, 31
- Western Reserve, 36
- Westinghouse, 93
- Westwood Village plan, 163
- “White City, The,” 89
- Whitten, Robert, 58, **66**
- Wojick, David, 99
- Woodlief, Anthony, 94
- World Bank, 168, 178
- World’s Columbian Exposition, 47, 89–90
- World’s Fair, 151, 152
- Xerox Star, 159
- Xi’an, **10**
- Yale University, 40
- Yard, 142
- Zhou Dynasty, 9
- Zhouli, 9
- Zone system, 49, 53
- Zoning, 4, 108–109, 114, 171, 175, 184
- computers, 155, 164
- FHA, 71
- planning, 47, 49, 53, 55–56, **56**, **57**, **169**, 175, 181, 187
- preservation of nature, 145
- private developments, xx
- standards/regulations, 8, 49, 58–60, 102, 112, 135, 168, 188
- transect-based codes, 183