# *Index*


Abbot, Dr. Charles Greeley, 15, 31, 132, 170
Accidental cycles, 50
Aftershock, 44–45
Airplane-traffic cycles, 81–83
Alchemy, 160
Aldrin, Edward, 174
Aldrich, Dr. John, 140
Aluminum-production cycles, 83–84
American Management Association, 12
American Museum of Natural History, 22
American Statistical Association, 19
Amory, Copley, 14, 15
Anderson, C. N., 14, 168
Andrews, Loring B., 167
Argentina, 170
Armstrong, Neil, 174
Ascension Island, 21–22
Astrology, 159–160
Astronomical cycles, 14, 15
*Astronomy* (Skilling and Richardson), 179
Babson, Roger, 123–126
Bacon, Francis, 129
Baekeland, George, 15
Bank-debit cycles, 11–12
Bar magnets, lines of force of, 54
Barometric-pressure cycles, 130–133
Bartels, J., 85–87, 132
Bartels test of probability, 118
Bedbugs, 31
Bees, 31
Bell, Alexander Graham, 197
Bell Telephone Laboratories, 14, 168
Benner, Samuel Turner, 3, 94–95, 103
*Benner's Prophecies of Future Ups and Downs in Prices* (Benner), 94–95
Bernard, Claude, 43
Beveridge, Lord, 28, 96
Biological cycles, 13–15
Birds, 22–24, 49, 139–140
  50.7-month cycle, 23
  5-to-6-year cycle, 23
  9.7-month cycle, 22
  odd-numbered-years cycle, 23
  3-to-5-year cycle, 23

Bishop, Jim, 75–78, 80
Blood pressure, 35
Bobwhites, 23–24
Body "clocks," 36–38
Booth, John Wilkes, 75
Botany Worsted Company, 13
Bowen, Dr. E. G., 136
Boyle, Robert, 3
Brahe, Tycho, 197, 201
Brain, the, 44
Brain waves, 34
Brontë, Anne, 43
Brooke, Rupert, 43
Brown, Frank A., Jr., 37–38, 53, 176, 199–200
Burgess, Clement, Index, 111
Burlingame, Roger, 46
Burr, Dr. H. S., 29, 175, 199

Camsell, Charles, 15
Canadian-lynx abundance cycle, 24–26, 32, 51–52, 53, 157
  compared to death cycles, 73–74
Canadian Pacific Railway, 65, 71, 90–91
Caterpillar abundance cycle, 52
Chapin, Dr. James P., 22
China, 142, 153, 155
Chinch-bug abundance cycles, 4, 26
Chipmunks, 31
Church-membership cycles, 59–66
Churchill, Sir Winston, 145
Cicero, 43
Cigarette-production cycles, 85–87
City National Bank and Trust Company (Chicago), 106
Clarke, Dr. Hyde, 3, 166
Clayton, H. H., 132, 170
Cloudsley-Thompson, J. L., 33
Clough, W. C., 142
Coal-production cycles, 28
Coincidences, 19–20, 75–78, 80
Cold-dry cycles, 138
Cold-wet cycles, 139
Collins, Charles J., 167
Colton, Arthur Willis, 10
Combined Index of the Standard and Poor's Corporation Index, 111
Comet cycles, 179–180
Commonwealth Scientific and Industrial Research Organization, 136
Conjuncture Institute of Moscow, 98
Conscience cycles, 66–67
Consolidated Edison Company of New York, Inc., 13
Cooper, Patrick Ashley, 15
Copper-production cycles, 30
Coppock, E. S. C., 116
Corn-price cycles, 95, 98–99, 103
Cosmic rays, 160
*Cosmos, The* (Humboldt), 164
Cotton-price cycles, 99–100, 103
Coyote abundance cycles, 26
Creativity cycles, 42–43, 46
Crime cycles, 71–73
Crum, W. L., 121
Cycles
  catalog of, 16
  chart (9.6 or 9.7 years), 188
  meaning of, 2–3, 11
  number of, 16
  origin of the word, 11
  practical use of, 21–22, 26–27
  the science of, 4–5
  *See also* names of cycles
*Cycles* (magazine), 31, 79–91, 96–102, 104
Czechoslovakia, 31

Darwin, Charles, 43
Davison, Dr. Charles, 140
Dawes, Charles Gates, 106, 109
Death cycles, 68, 73–74
  the moon and, 178
Décolletage cycles, 70

Depressions
  elimination of, 17–18
  the Great, 10–14, 47
Disease, elimination of, 18
Dodge, F. W., Corporation, 88
Dow-Jones Railroad Averages, 120–121
Downy woodpeckers, 23–24
Duke University, 44, 147
Dynamic cycles, 48

Earth, the, 162–163, 182
  age of, 7, 8
  orbit of, 174–175
Earthquake cycles, 21, 139–142
Ecker, Frederick H., 55
Economic cycles, 12–13, 15, 21, 28, 47, 53–54
  bank debit, 11–12
  compared to church-membership cycles, 65–66
  compared to marriage cycles, 71
  depression elimination, 17–18
  54-year, 28
  internal, 48–49
  9.2-year, 30–31
  prices, 92–106
    Benner, Samuel Turner, on, 3, 94–95, 103
    corn, 95, 98–99, 103
    cotton, 99–100, 103
    English wrought-iron, 100–101
    European wheat, 96–98
    oats, 104–106
    pig-iron, 95, 102
  production, 75–91
    airplane-traffic, 81–83
    aluminum, 83–84
    cigarettes, 85–87
    coal, 28
    copper, 30
    insurance, 89–90
    orders-received, 80–81
    pig-iron, 28–30
    real-estate activity, 84–85
    residential building-construction, 88
    steel, 87
    ton-miles, 90–91
    wheat-acreage, 4, 89
  stock market, 107–128
    Babson, Roger, on, 123–126
    complications, 109–110
    50-year, 114–115
    5.7-year, 115–116
    forecasts, 111–116, 126–128
    41-month, 120–123
    9.2-year, 118–120
  sunspots and, 166–167
Egypt, 155
Einstein, Albert, 134
Electrical cycles
  human beings, 44
  trees, 29, 175–176
Electromagnetic radiation, 160–162
Electromagnetic waves, 7, 160–162
Elton, Charles Sutherland, 15
Emerson, Ralph Waldo, 57
Emotional cycles, 38–41
  forecasting, 40–41
  a grid for, 41
Epicurus, 163
European wheat-price cycles, 96–98
Evening grosbeaks, 23
External cycles, 48–53
Eyeglass cycles, 70

Fad cycles, 70
Faraday, Michael, 43
*Farm Economics*, 88
Feedback cycles, 48, 49
Female cycles, 2, 41–42
Fisher abundance cycles, 26
Flaubert, Gustave, 43
Flewelling, Ralph Tyler, 19
*Forbes* (magazine), 11

Forbes, William Cameron, 15
Forced cycles, 49–50
Foundation for the Study of Cycles, 15, 79, 83, 90, 95, 106, 107, 126, 144, 147, 149, 159, 165, 198
  catalog of cycles, 16
  as a clearinghouse of information, 29–31
  depression elimination, 17–18
  disease elimination, 18
  knowledge advancement, 17
  library of, 185–186
  original board of directors, 15

Galileo, 164
Gamma rays, 160
Garcia-Mata, Carlos, 166–167, 168
General Electric Company, 80–81
General Motors Corporation, 84
Goethe, Johann Wolfgang von, 43
Goldstein, Louis S., 45
Grasshopper abundance cycles, 4, 30, 32
  15-year, 30
  9.2-year, 4, 30
  22.7-year, 30
Gray, Thomas, 43
Great Britain, 26, 28, 31, 121, 129–130, 141, 180
  conscience cycle, 66–67
  wheat-price cycles, 96–97
  wrought-iron-price cycles, 100–101
Great Depression, 10–14, 47
Greece, 153
Grosbeaks, 23
Grunions, 176–177
Guilt cycles, 66–67

Hairy woodpeckers, 23–24
Halley, Edmund, 179–180
Halley's Comet, 179–180
Harkness, H. A., 142
Hart, Philip, 143
Harvard University, 121, 167
Heart-disease cycles, 4, 73–74
Hersey, Rex, 39–40, 42
Holland, 155
Hoover, Herbert, 10
Hoover, J. Edgar, 71–73
Horned owls, 23
Hoskins, Chapin, 11–13, 121
Houghton, Alanson Bigelow, 15
Hudson's Bay Company, 24
Hugo, Victor, 43
Human beings, 33–45
  aftershock, 44–45
  body "clocks," 36–38
  brain-wave cycles, 34
  consequences of predictability, 55–56
  creativity cycles, 42–43, 46
  daily rhythms, 34–36
  electrical cycles, 44
  emotional cycles, 38–41
    forecasting, 40–41
    a grid for, 41
  love cycles, 41–42
  mass cycles, 46–74
    cause and effect, 47–48
    consequences of predictability, 55–56
    crime, 71–73
    curve of conscience, 66–67
    death, 68, 73–74, 178
    external, 48–53
    immigration, 70–71
    internal, 48–50
    marriage, 68, 71
    Protestant church membership, 59–66
    sunspots and, 57–59, 60
  time-zone syndrome, 36
Humboldt, Alexander von, 164
Huntington, Ellsworth, 13, 15, 73, 167
Huxley, Julian Sorrell, 15

Ibsen, Henrik, 43
Imbo, Giuseppe, 142
Immigration cycles, 70–71
Index of Mass Human Excitability, 58–59, 60, 168
Index of Real-Estate Activity, 84–85
Indexes of International War Battles and Civil War Battles, 149–157
India, 155
Indonesia, 155
Infrared rays, 160, 161
"Inquiry into the Effect of Sunspot Activity on the Stock Market, An" (Collins), 167
Insurance cycles, 89–90
Internal cycles, 48–50
*Investigation of the Relationship between the Sunspot Activity and the Course of the Universal Historical Process from the V Century B.C. to the Present Day* (Tchijevsky), 57–59, 60

Jackson, Curtis, 177
Jaggar, T. A., 142
James, Frank Cyril, 15
Japan, 142
Java, 28
Jevons, W. Stanley, 166
Jodrell Bank radio telescope, 180
Johnson, Andrew, 75, 76
Johnson, Mrs. Andrew, 76
Johnson, Lyndon B., 75, 76
Johnson, Mrs. Lyndon B., 76
Jupiter (planet), 6, 178, 182

Kansas Academy of Sciences, 148–149
Kapteyn, Albert J., 81–83
Keats, John, 43
Kennedy, John F., 75–78, 80
Kennedy, Mrs. John F., 75, 76
Kepler, Johannes, 160, 197, 201
Kitchin, Joseph, 121
Knowledge, advancement of, 17
Kondratieff, N. D., 98
Korean War, 149
Kosygin, Alexsei, 36

Lavoisier, Antoine, 3
Lead-production cycles, 28
Leeuwenhoek, Anton van, 3, 94
Lehman Brothers, 13
Lemming abundance cycles, 27–28
*Life* (magazine), 16
Light
  ultraviolet, 160
  visible, 160, 161
Lincoln, Abraham, 75–78, 80
Lincoln, Mrs. Abraham, 75, 76
Lincoln, Robert, 75
Liver, the, 35
Lizards, 31
Long waves, 160–161
Love cycles, 41–42
Lunacy, 177
Lungs, 35
Lynx abundance cycles, 24–26, 32, 51–52, 53, 157
  compared to death cycles, 73–74

Mansfield, Katherine, 43
Marriage cycles, 68
  compared to economic cycles, 71
Mars (planet), 6, 178, 182, 183
Marten abundance cycles, 26
Martin, Harold, 59–62
Mass cycles, 46–74
  cause and effect, 47–48
  consequences of predictability, 55–56
  crime, 71–73
  curve of conscience, 66–67
  death, 68, 73–74

Mass cyles (*cont.*)
external, 48–53
immigration, 70–71
internal, 48–50
marriage, 68, 71
Protestant church membership, 59–66
sunspots and, 57–59, 60
Matamek Conference, 13–15
Menstrual cycles, 41
Mercury (planet), 6, 178, 182, 183
Metabolism, 37
Metropolitan Life Insurance Company, 55
Mice abundance cycles, 4
Michigan, Lake, 32
water level of, 30
Milky Way galaxy, 162
Mink abundance cycles, 26
Mitchell, Wesley Clair, 15
Mob cycles, *see* Mass cycles
*Money Game, The* ("Smith"), 107
Moon, the, 37, 174–178
death cycles and, 178
orbit of, 174–175
rotation of, 163
"Morning" people, 35–36
Mozart, Wolfgang Amadeus, 43
Musham, Harry A., 144

Nelson, John H., 182–183
Neptune (planet), 6, 182
New York City, barometric-pressure cycles, 130–133
New York Stock Exchange, 116
*New York Times, The*, 47
Niebuhr, Dr. Reinhold, 201
"Night" people, 35–36
Northern shrikes, 23
Northwestern University, 37, 199
Norway, 27–28

Oats-price cycles, 104–106
O'Donnell, Kenneth, 75
Orders-received cycles, 80–81
Oswald, Lee Harvey, 75
"Outside force" hypothesis, 37–38
Owls, 23
Oyster experiment, 37, 53
Ozone abundance cycles, 52, 53

Palolo worms, 176
Partridge abundance cycles, 31, 32
Patterns, 145–146
Pennsylvania Department of Health, 133
Petersen, Dr. William F., 177–178
Piccardi, Giorgio, 159, 200
Pig iron
price cycles, 95, 102
production cycles, 28, 30
Pine grosbeaks, 23
Pinnell, S. W., 143
Plankton abundance cycles, 32
Platen, August, 43
*Playboy* (magazine), 75
Pluto (planet), 6, 178, 182
Pogson, N. R., 167
Potato experiment, 37–38, 53, 176, 199
Predator-prey relationship, 49
Predictability, consequences of, 55–56
Price cycles, 92–106
Benner, Samuel Turner, on, 3, 94–95, 103
corn, 95, 98–99, 103
cotton, 99–100, 103
English wrought-iron, 100–101
European wheat, 96–98
oats, 104–106
pig-iron, 95, 102
rainfall and, 103–106
stocks, 109–110
50-year, 114–115
5.7-year, 115–116
41-month, 120–123
9.2-year, 118–120

Priestley, Joseph, 3
Probabilities, 108
  Bartels test of, 118
Production cycles, 75–91
  airplane-traffic, 81–83
  aluminum, 83–84
  cigarettes, 85–87
  coal, 28
  copper, 30
  insurance, 89–90
  orders-received, 80–81
  pig-iron, 28, 30
  real-estate activity, 84–85
  residential building-construction, 88
  steel, 87
  ton-miles, 90–91
  wheat-acreage, 4, 89
Prophecies, *see Benner's Prophecies of Future Ups and Downs in Prices* (Benner)
Protestant church membership cycles, 59–66
Pulsar cycles, 180–182
Pythagoras, 43

Quasar cycles, 180

Rabbit abundance cycles, 4, 24–26, 31
RCA Communications, 182
*Radio Today,* 161
Radio waves, 51, 52, 160, 161, 180, 182
Radio weather cycles, 182–184, 186
Radios, 51, 52
Rainfall cycles, 52, 53, 103–106, 133–136
  4.33-year, 134–135
  prices and, 103–106
Ravitz, Dr. Leonard, 44
Real-estate activity cycles, 84–85
*Real Estate Trends, The,* 85
Red fox abundance cycles, 26
Research Council of Ontario, 23
Residential building-construction cycles, 88
Restigouche Salmon Club, 26–27
Rhine, Dr. Joseph Banks, 147
Rhythms
  daily, 34–36
  meaning of the word, 11
  number of, 16
  origin of the word, 11
Richardson, R. S., 179
Rimski-Korsakov, Nikolai Andreevich, 43
Rocard, Y., 200
Rodent abundance cycles, 27–28
Rossetti, Christina, 43
Rothschilds, the, 120–121
Rough-legged hawks, 23
Rountree, G. Meredith, 90
Royal Astronomical Society, 164–165

Salmon abundance cycles, 4, 26–27, 32, 52, 53
  compared to death cycles, 73–74
Saturn (planet), 6, 182
Schubert, Franz, 43
Schütz, Heinrich, 43
Schwabe, Heinrich, 164–165
Scott, Walter, 43
Sedimentary rock, 21
Seneca, Marcus Annaeus, 43
Seton, Ernest Thompson, 3
Seventh sense, 147–148
Sexual activity, 40
Shaffner, Felix, 166–167, 168
Shapley, Harlow, 15
Shelley, Percy Bisshe, 43
*Short History of Science, A* (Sedgwick, Tyler, and Bigelow), 79
Sibelius, Jean, 43
Skilling, W. T., 179
Skirt-length cycles, 68
Skunk abundance cycles, 26
Sleep, 35, 40

Sleepwalking, 177
"Smith, Adam," 107
Smithsonian Institution, 31, 170
Snowshoe-rabbit abundance cycles, 4, 24–26
Snowy owls, 23
Solar constant, the, 170
Sooty terns, 22
Sorbonne, 200
Space, patterns of, 146
Speirs, J. Murray, 23
Star cycles, 178–179
  variable, 179
Stars, 6, 21
Steel-production cycles, 87
Stock-market cycles, 12–13, 21, 107–128
  Babson, Roger, on, 123–126
  complications, 109–110
  50-year, 114–115
  5.7-year, 115–116
  forecasts, 111–116, 126–128
  41-month, 120–123
  9.2-year, 118–120
  sunspot cycles and, 167
Stocks
  behavior of, 116–117
  individuality of, 117
  prices, 109–110
  *See also* Stock-market cycles
Stone, W. Clement, 40
Stopes, Dr. Marie, 42
Struthers, Robert, 55
Sun, the, 162
  density of, 163
  mass of, 163, 174
  rotation of, 163
  size of, 163
  22.7-year cycle, 31
Sunspot cycles, 14, 57–59, 60, 140, 163–167
  economic cycles and, 166–167
Synchrony of cycles, 189
Syria, 155
Taylor, Jeremy, 75
Tchaikovsky, Pëtr Ilich, 43
Tchijevsky, A. L., 57–59, 60, 167–168
Temperature cycles, 35–36
*This Week Magazine*, 71
Tides, 2, 37, 174, 175, 198
Time, 7–8
  lag, 167–169
  patterns of, 146
  series, 185
  -zone syndrome, 36
Tiros satellites, 133–134
Ton-miles cycles, 90–91
Trees, 28, 31, 32
  electrical cycles, 29, 175–176
  54-year cycle, 28
  42-year cycle, 28–29
  9.2-year cycle, 30, 31
  6-month cycle, 29
  16⅔-year cycle, 28
TRENDEX service, 116
Twain, Mark, 1

Ultralong waves, 52–53
Ultraviolet light, 160
United States Army Air Force, 21–22
United States Signal Corps, 133
United States Weather Bureau, 133–134, 136
Universe cycles, 159–184
  comets, 179–180
  long waves, 160–161
  the moon, 174–178
  pulsars, 180–182
  quasars, 180
  the solar constant, 170
  stars, 178–179
  sunspots, 163–167
  the time lag, 167–169
  weather forecasting, 182–184
University of Kansas, 136, 148
University of Pennsylvania, 39, 44
University of Pittsburgh, 15, 198
Uranus, 6, 182

Venus (planet), 6, 182, 183
Vietnam war, 155
Visible light, 160, 161
Volcano cycles, 21, 142–143

Wagner, Richard, 43
Wallace, Henry, 133
War
  cycles, 145–148
    behavior of, 157–158
    $11\frac{1}{9}$-year, 154
    57-year, 151
    142-year, 150–151
    predictions by, 154–157
    the seventh sense, 147–148
    21.98-year, 153
    $22\frac{1}{9}$-year, 152–153
  elimination of, 17
Warm-dry cycles, 139
Warm-wet cycles, 138
Water-level cycles, 21, 30, 143–144
Water Purification Division of Chicago, 32
Waves
  brain, 34
  electromagnetic, 7, 160–162
  long, 160–161
  radio, 51, 52, 160, 161, 180, 182
  ultralong, 52–53
Weather forecasting, 18, 129–144, 170, 182–184
Webster, Dr. J. H. Douglas, 43
Wenzlick, Roy, & Company, 85
Westinghouse Electric Corporation, 12
Wheat
  acreage cycles, 4, 89
  price cycles, 96–98
Wheeler, Raymond H., 136–137, 148–150
Wing, Dr. Leonard W., 23
Wolf abundance cycles, 26
Wood, Struthers and Company, 55
Woodpeckers, 23–24
World War I, 90, 129–130
World War II, 90–91
Worms, 176
Wrought-iron-price cycles, 100–101

Yale University, 13, 29, 44, 199
Young, Agnes Brooks, 68
Yo-Yo cycles, 70