Subject Index

A
Aborigines, Australian, 155
Abu-Lughod, Lila, 26, 62
ACEs (Adverse Childhood Experiences), 315–316
Acetylcholine, 171
Achebe, Chinua, 73
Achievement, failure in, 348
Acquired sociopathy, 184
ACTH (adreno-corticotropic hormone), 130
Action readiness, modes, 150
Active emotions, 61–62
Active rGE, 285
Activity, 17
Actors, 110–111
Actor effect, 286
Acute anxiety, 363
Acute stress, 363
Adaptation, 35–37
Adaptationist lens, 35
Adaptations to negative environments, 312
Adjective checklists, 160
Adolescence, 4
Adolescent limited children, 331
Adolescent psychopathology, interventions, 332–335
Adrenal glands, 130, 131
Adreno-corticotropic hormone (ACTH), 130
Adult Attachment Interview, 289–290
Adverse Childhood Experiences (ACEs), 315–316
Adversities, 281
Aesthetic emotion, 117
Affect-as-information perspective, 261
Affect Infusion Model, 260–263
Affection, 46. See also Affiliation
Affectional bonds, 53
Affective biases, 329
Affective-cognitive structures, 222
Affiliation, 46, 54
and cooperation, 44
and friendships, 220
and groups, 250
Agency, 151
Aggression (aggressive behavior): in children, 288
in chimpanzees, 43
in emotion-based disorders, 309
between groups, 250
and limbic system, 174
psychopathy and, 360
and reaction to facial expressions, 284
siblings, 301
Agoraphobia, 342
Agreeableness, 281, 282, 343
Ainsworth, Mary, 54, 288
Alcohol and alcohol abuse, 339
Alcoholics Anonymous, 71
Alexithymia, 158, 312, 361
All Quiet on the Western Front, 73
Alpha male, 45
Anae, 65
Ambady, Nalini, 94
Ampibant attachment, 288, 325
Amish, 371
Amygdala, 131, 172, 173, 178–180, 183, 186, 187,
193, 216, 289, 312, 322, 358, 360, 361
Anderson, Adam, 28
Anderson, Craig, 131
Andrews-Hanna, Jessica, 194
Anger:
and appraisal, 152
and bias, 311
and core affect, 163
cross-cultural comparisons of, 78
development of, 208
and embodiment, 138
and emotional disorders, 352
as emotion word, 158
facial expression for, 94, 146
in family environment, 295–296
and frustration, 67
group conflicts, 250–251
in infants, 204–206
and power, 242
scheme, 149
smiling and facial expressions of, 146
and social interaction, 110
varieties, 158
vocal expression for, 104
Anhedonia, 341
Animals, emotions as, 157
Angruyan, 120
Anorexia, 361
Anterior cingulate, 173, 189, 190–191, 358
Anterior insula, 190
Anterior insular cortex, 183–184
Anthropology, 18–19
Antidepressant drugs, 359
Antidepressant medications, 374
Antisocial motivation, 57
Antithesis, principle of, 91
Anxiety:
and reaction to facial expressions, 284
and social class, 246
and voice, 104
Anxiety disorders, 338, 342
cognitive biases in, 357
onset of, 348
prevalence of, 339–340
types of, 342–343
Apes, human relatedness to, 45
Apocalypse Now (film), 72–73
Appraisal(s), 144–167
amygdala, 178–180
automatic evaluation, 145–147
definition of, 144
dimensional approaches to, 148, 149–152
discrete approaches to, 148–149
and emotional experience, 160–164
emotion-related, 177–178
mind, 146
and mood disorders, 348
nucleus accumbens, 180–182
pain, threat, and harm, 182–183
primary, 145–147, 153, 257
secondary, 145, 148–152, 257
tests of theories, 152–154
and verbal sharing, 154–160
Aristotle, 12, 116
Arnold, Magda, 22–23
Art, communication of emotions in, 113–117
Artistic approach, 17–18
Artistic expression, 113–114
Asian cultures, 64, 65–66
Aspergers, 229
Assertion, 56
Assessment, psychometric, 310
Attachment, 11, 43, 52–54, 190, 287–292
avoidant, 288
emotions and, 288–289
genetic influences on, 291–292
parental behaviors, 292–299
parent to child attachment, 290–291
resistant, 288
security, 288
status and emotional outcomes, 288–289
Attachment status, 325
Attachment styles, 108
Attentional effects, 265–266
Attention-deficit hyperactivity disorder (ADHD), 310

Attributions, 151

Atypical emotional responses, 311–312

Austen, Jane, 98, 216–218, 232, 237

Autism, 229, 310, 360

Autism spectrum disorder, 213

Automatic appraisals, 145–147

Autonomic nervous system, 122–130

parasympathetic, 122

sympathetic, 122

Autonomic response, 125–126

Autonomic specificity, 125

Autonomous style, 290

Avatar (film), 22

Avoidant attachment, 288, 325

Awareness and subjective feeling, 183–184

Awe, 129–130

Awlad’ Ali, 26

Axons, 172

Aztecs, 250

Babies, 36

Baboons, 46

Barrett, Lisa Feldman, 158, 192

Basic emotions, 202–206

Bastin, Coralie, 193

Beauty, 186

Behavioral ecology theory, 99

Behaviors, health, 302

Behavior therapy, 11, 333

The Better Angels of Our Nature (Steven Pinker), 71

Bias(es):

affective, 329

cognitive, 357

negativity, 216–217, 356

Bible, 77

Big Five model of personality, 281, 343

Biobehavioral synchronization, 292

Biography, 270

Bipolar disorder, 322, 341–342

prevalence of, 342

Bishop, Sonia, 179

Black bile, 16

Blackett, M., 366, 376

Black, Lewis, 5

Blair, James, 184

Blame, 362

Blushing, 126–128, 134

Bodily response. See also Brain

and autonomic nervous system, 122–123

autonomic response, 125–126

blushing, 126–128

and embodiment, 138–140

emotional experience and, 134–138

facial action, directed, 123–125

gut feelings and decision making, 140–141

and hypothalamic-pituitary-adrenal axis, 130–132

and immune system, 132–134

and somatic marker hypothesis, 140

Boehm, Christopher, 48

Boiger, Michael, 64

Bonding, 175

Bonobos, 41

Bosnia, 250

Botox, 141

Bowly, John, 11, 43, 97, 200

Brain, 169–195

amygdala, 178–180

anterior cingulate, 190–191

anterior insular cortex, 190–191

cortical processes in, 184–191

dorsal anterior cingulate cortex, 190–191

distinct emotions, 192

dorsal anterior cingulate cortex, 190–191

eye brain activation, 192–195

early research on, 174

and empathy, 141, 189–190

and limbic system, 174–175

neuroimaging of, 170–173

orbitofrontal cortex, 182–183

physiological changes, 289

prefrontal cortex, 185–188

and recognition of emotions, infants, 216, 220–222

reward circuit in, 180–181

and somatic marker hypothesis, 140

subcortical processes in, 177–183

Brain lesion studies, 174, 181

Brain stem, 173

Brazil, 346

Breathing, 138

Breines, Julia, 352

Broadening and building, 264

Brokeback Mountain (film), 158

Brooding, 357

Brooks, Jeffrey, 187

Bucharest Early Intervention Project (BEIP), 325

Buddha, statue, 68

Buddhism:

meditation practices, 383

mindfulness, 384

pillars, happiness, 383

reincarnation, 382

Siddhartha Gautama, 382, 383

yoga, 383

Bullying victimization, 326

Burials, ritual, 49, 114

C

Calamity, 70

Call, Josep, 51

Calmness, emotional, 138

Cambodia, 250

Campos, Belinda, 65, 129

Candidate gene studies, 320

Cannon, Walter, 20, 121

Capitalizing upon the good, 235

Carhart-Harris, Robin, 194

Carlyle, T., 259

Catechol-O-methyltransferase (COMT) gene, 226

Catharsis, 377

Cerebellum, 173

Cerebral cortex, 173

Chen, Edith, 246

Chen, Serena, 352

Cheng, Joey, 242

Chewong, 155

Child abuse, 358

Childhood:

development of emotions in, see Emotional development

neglect during, 354

Childhood disorders, 309–335
categorical diagnosis, 309
cosmorbidities, 310, 313, 344
dimension, 310

heterogeneity, 310, 313

neurological/endocrine factors in, 321–323

Childhood poverty, 303

Childhood psychopathology:

biological risk factors, 318–323
components of therapy, 335
distal risk factors, 326–329

emotions, 310–311

epidemiology, 312

externalizing problems, 330–331

heterotypic continuity, 329–330

homotypic continuity, 329

internalizing disorders, 331–332

interventions, 332–335

methylation in, 321

multilevel perspective, 314

prevalence, 312–314

proximal risk factors, 323–326

risk factors, 314–318

trajectories of disorders, 329

Child maltreatment, 324

Children, attachment styles in, 288, 290–292.

See also Parent–child relationship

Chile, 346

The chills, 128–130

Chimpanzees:

bonobo life, 46

grooming, 50

hierarchies, 45, 48

human relatedness to apes, 45

mothers and infants, 43, 44

China, 346

Chinese culture, 66–67

infant emotional expression in, 210

regulation in, 387

Cholecystokinin, 172

Christianity, 15, 68

Chrysippus, Stoic, 177
of emotions, 384–386
Constructivist, 162–163
Contempt, 104, 235
Continuities, 329
Continuity of attachment styles, 290–292
Control:
effortful, 221
parental, 300
Coontz, Stephanie, 230
Cooperation:
ability to cooperate, 273
collective intentionality, 273
development of, 202
groups and, 251
importance, 366
positive emotions, 366
shared intentionality, 273
shared thinking and, 287
touching and increased, 108
Coordinate social interactions, 109
Copy number variants (CNVs), 320
Cordaro, Daniel, 99, 104, 107
Core affect, 163
Core Conflictual Relationship Themes, 376
Core effect, 163
Core relational themes, 149
Corpus callosum, 27, 173
Cortical processes in brain, 184
Costello, J., 329
Courtly love, 75
Crews, Frederic, 11
Craig, Bud, 183
Crime, 274, 330
Critchley, Hugo, 137, 139
Criticism, 244
Cross-cultural comparisons, 78
Crozier, Ray.W., 126
Cruelty, 70
Crying, 8–9, 202, 289
Cultural approaches, 59–80
epistemologies in, 66
ethnographies, 61
historical method, 69–71
integrating evolutionary and, 78–80
self-construal in, 63–65
values in, 67–69
in the West, 69–71
Culture, 29, 61
Cytokine system, 132, 133
Cumulative risk, 315

D
Dalectical-behavioral therapy, 377
Damasio, Antonio, 140
Dancing in the Streets (Barbara Ehrenreich), 55
Dandelions, 286
Danger, 349

Darwin, Charles, 6–9, 18, 33, 86, 91–93, 96, 127, 161, 175
Davidson, Richard, 187
Davis, Joshua, 139
Decalogue 8 (film), 270
Deception, 25
Declaration of Independence, 63
Decoding hypothesis, 93
Default brain network, 220
Defensiveness, 235
De Leersnyder, Jozefien, 69
Deliberative processes, 251
Dementia, 190
Depression:
in children, 310
definition of, 338
forms of, 339
negative bias, 356
neurophysiology of, 358–359
onset of, 346–347
prevalence of, 339, 346
recovery from, 356
recurrence of, 354–355
and regulation, 387
social support, 353
vulnerability factors in, 353–355
Depressive disorders, prevalence of, 340
Deservingness, 259
Desire, 125
DeSteno, David, 15
Developing societies, 345
Development of emotions, see Emotional development
De Waal, Frans, 46, 55, 97, 108
Diagnosis, 309, 338
Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition, DSM-5
(2013), 10–11, 30
Dialectical-behavioral therapy, 377
Diary studies, 162
Diathesis–stress model, 318, 343
Differential parenting, 300
on sibling, 323
Differential susceptibility, 318
Dimensional approaches (to appraisal), 8, 149–152
Dimensions, 309–310
Dips in personality maturity, 285
Directed facial action, 123–125
Disabling states, 351
Discourse, 61
Discrete approaches (to appraisal), 148–149
Discrete emotion, 161–162
Diseases, emotions as, 157
Disgust, 5, 40, 149
and embodiment, 138
facial expression for, 94
in infants, 202
and moral judgment, 272
vocal expression for, 103

Circumstance, 371
Classical conditioning, 178
Client-centered therapy, 380
Climate effect, 293
Cline, Emma, 17
Co-construction of parent–child relationship, 323–324
Cognition:
attentional effects on, 265–266
embodied, 141
and emotional development, 209
and emotion congruence, 265
and feelings as information, 264
guiding of, by emotions, 256–258
and morality, 269–273
and passion vs. reason dichotomy, 255–256
perceptual effects on, 264–265
and persuasion, 269
and remembering, 266–267
and styles of processing, 264–265
Cognitive-behavioral therapy (cognitive behavior therapy), 11, 333, 367, 376–377, 379, 382
Cognitive biases, in anxiety disorders, 357
Cognitive change, 219
Cognitive development, 293, 303, 304
Cognitive sensitivity, 293
Collective emotion and preference, in-groups, 55–57
Collective group goals, 52
Collective intentionality, 273
Collectivist cultures, 112
Communal sharing, 71
Communal violence, 72
Communication of emotions, 85–117
in art, 113–117
by children, 279–281
and coordination of social interaction, 109–111
cultural variation in, 111–113
facial expressions, 96–102
nonverbal behavior and, 88–91
by touch, 107–108
vocal communication, 102–107
Compassion, 21, 126, 182–183, 236
Compassionate love, 236
Competition:
intersexual, 33–34
intrasexual, 34
Component Process Model, 153
Compulsions, 342–343
COMT gene, 226
Conceptualization, emotion, 156
Conditioned stimulus, 178
Conduct disorder, 297, 309, 334
Conflict, inner, 373
Confucius, 63
Congruence, emotion, 265
Conrad, Joseph, 72
Conscientiousness, 281, 282, 343
Consciousness, 208

Consciousness, 208
Conscientiousness, 281, 282, 343
Conrad, Joseph, 72
Congruence, emotion, 265
Confucius, 63
Conflict, inner, 373
Conduct disorder, 297, 309, 334
Dismal science, 259
Dismissing style, 290
Dismissive parents, 235
Disorganized attachment, 288
Displays, emotional, 242–244
Display rules, 77
Disposition theory, 274
Distal factors, 299, 326
Distinct emotions, 192
Dizygotic twins, 319, 344
DNA, 37, 39, 43
Docter, Pete, 4
Drug treatments, for depression, 359
Dryuan, Ann, 120
 Duchenne smiles, 244

E
Early experiences, 353–354
East Asian cultures, 68
Eastwick, Paul, 232
Eating disorders, 361
Ecological validity, 96
Effortful control, 221
Ehrenreich, Barbara, 55
Egyptians, ancient, 386
Ehrenreich, Barbara, 55
Elfenbein, Hillary, 94, 104, 111, 112
Eisenberger, Naomi, 182
Eisenberger, Naomi, 182
Eisenberg, Nancy, 97
Ekman and Friesen studies, 95–96
Ekman, Paul, 23, 93–97, 101, 105
Elder, G., 283
Electroencephalography (EEG), 166, 172
Ellenben, Henry, 94, 104, 111, 112
Elia, Norbert, 70–71
Elicitation, 98, 177, 193, 310, 352
Elicitors of emotions, 67
Eliot, George, 17–18
Elis, Ori, 361
Elliot, Andrew, 129
Embarrassment, 54, 190, 192
Emblems, 88
Embodied empathy, 141
Embodiment, 138–140
Emotion(s):

  amygdata, 172–173
  ancient Greeks’ view of, 12–15
  artistic approach to, 12, 15–18
  autonomic nervous system, 122–123
  awareness and subjective feeling, 183–184
  bodily approaches, 10
  and bodily changes, 120–122
  brain lesions and stimulation, 174
  brain science of, 19–21
  challenges, 172
  characterization, 6

conceptualization, 156, 185–188
consciousness of, 384–386
definitions of, 5, 28, 29
disorganized response, 144
drawings and stickers, 86–87
and emotional disorders, 350–352
empirical inspirations for new science, 26–28
evolutionary history of human, 41–49
evolutionary approach to, 6–9
expressed, 361–362
expressions, 6, 26
framework, 28–29, 177
group and collective emotions, 248–251
group-based emotions, 247–250
human brain, 170, 173
inflammation response, 132–134
learning, 182–183
limbic system, 174–175
marriage, 234–237
mood, see Mood
and negotiation of social hierarchy, 54
neuron, 172
neurotransmitters, 171–172
online platforms, 170
philosophical approach to, 15–17
physiological approaches to, 18–21
positive, 27–28
and power, 244–245
psychological approaches to, 10–12, 22–23
reflexes, 173
relational, 61
signals, neural implant, 170
and social class, 245–247
social pain, 190–191
sociological approach to, 24–26
specific patterns, brain activation, 192–195
system, mammalian brain, 175–177
theoretical approaches to, 28–29
unfolding process of, 28–29

Emotion accents, 112
Emotional complexity, 65, 158
Emotional conditioning, 178
Emotional development, 201–227

  attachment, 288
  basic emotions, 202–206
  language and understanding of minds, 209–210
  programs optimizing, 303–306
  recognition of emotions, 210–217
  regulation of emotions, 218–224
  social emotions, 206–208
  temperament, 222–226
  theories of, 201–202

Emotional disorders, 30, 338–363. See also
  Childhood disorders; specific disorders, e.g.: Depression
  cognitive biases in, 357
depression and anxiety, 339
environment, 344–346
epidemiology of, 338–340, 346–349

Emotion-related processes, 133
Emotion-related prosody, 104
Empathy, 20, 141, 189–190

  development, 301
  regions of brain, 21
Empathy network, 21, 189
The Emperor's New Drugs: Exploding the Myth of Anti-depressants, 359

  Emotion-focused therapy, 377–378, 380
  Emotion lexicon, 155–156
  Emotion recognition, 99–102
  Emotion regulation, see Regulation
  Emotion-related processes, 133
  Emotion-related prosody, 104
  Empathy, 20, 141, 189–190
  development, 301
  regions of brain, 21
Empathy network, 21, 189

  Emotional experience, 160–161
  comparing perspectives, 163–164
  cultural patterns, 69
  spatial arrangement, 164
  Emotional expressions, 33, 89–91
  anterior insular cortex, 135
  distinct emotions, 134
  interoception, 137–138
  representations of emotions, 135–137
  suppression, 165

  Emotional labor, 25–26
  Emotional intelligence, 113, 252
  Emotion coaching philosophy, 297
  Emotion congruence, 265
  Emotion contagion, 295
  Emotion dialect theory, 112
  Emotion-dismissing philosophies, 297
  Emotion dysregulation, 312
  Emotion-eliciting events, 28
  Emotion episodes, 30
  Emotion-focused therapy, 377–378, 380
  Emotion lexicon, 155–156
  Emotion recognition, 99–102
  Emotion regulation, see Regulation
  Emotion-related processes, 133
  Emotion-related prosody, 104
  Empathy, 20, 141, 189–190
  development, 301
  regions of brain, 21
Empathy network, 21, 189

  The Emperor's New Drugs: Exploding the Myth of Anti-depressants, 359

  Employment, 285
  Encoding hypothesis, 93
  Energization, 163
  Enervation, 163
  The enlightenment, 73
  Entorhinal cortex, 173
  Environmental risk:
  children’s attachment, 291
  emotionality, 286–287
  multiple, 291
  Environment of evolutionary adaptedness, 41
  human ancestry, 47–49
  hunter-gatherer societies, 41–42
  nonhuman primates, 43–47
  Epicureanism, 13–15, 256, 376, 389
  Epidemiology, of emotional disorders, 338–340, 343, 346–349
  Epigenetics, 39, 350
Heritability, 225, 320, 343–344
Hernandez-Lloredo, Maria, 51
Herrmann, Esther, 51
Hertensein, Matthew, 109
Hess, Ursula, 102, 109, 111, 112, 141
Heterotypic continuity, 329–330
Heuristic-appraisal processes, 269
Heuristic processes, 269
Heuristics, 261
Hierarchical relationships, 241–247
emotional displays in, 242–244
power in, 244–245
and social class, 245–247
Hierarchies, 45, 48
Hindbrain, 172
Hippocampus, 172, 173, 322, 358
Histones, 39
Historical method, 69–70
Hitchcock, Alfred, 144
Hochschild, Arlie, 24–26
Holocaust, Nazi, 250
Homicide, rates, 71–72
Hominids, 50, 52
Homotypic continuity, 329
Hormones, 130, 132, 137
Horney, K., 382
Hostile attribution bias, 311
Hostility, 46
HPA axis, see Hypothalamic-pituitary-adrenal axis
5-HTT gene, 226
Huizinger, Johann, 70
Human ancestry, 47–49
Human body, see Bodily response
Human genes:
gift, 388
program, 38
robot-vehicles, 389
Human genome, 39
Human life, 365
cooperation, 366
modes and characteristics, 366
positive evaluations, 381
relatedness, 368–369
specific contributions, 366
Human vocal expression, 213
Hunter-gatherer societies, 41–42
friendships, 54
Huntington’s chorea, 174
Hutu, 247–248, 251
Hypervulnerability, 37
Hypomania, 341
Hypothalamic-pituitary-adrenal (HPA) axis, 130–132, 220, 240
Hypothalamus, 130, 132, 172–173, 178

I
Identity, 62–63
Ifaluk, 60, 61, 78
Izendoorn, V., 291
Ililiad (Homer), 386
Illustrators, 88, 89
Imbalance, emotional, 311
Immune system, 132–134, 342
Imprinting, 52
Impulse-control disorders, 339
Inagaki, Tristen, 182
Incentive functions, 110
Incidence, 110
Income inequality, 328–329, 344
Independent and interdependent selves, 63–65
India, 346
Individual differences, 283–284
and attachment, 287–292
and peers, 301–302
and personality traits, 284
and siblings, 300–301
Individual goals, 52
Infants. See also Emotional development
attachment styles in, 290
Japanese vs. American, 107
recognition of emotions in, 210–218
securely attached, 288
and touching, 109
Inflammation response, 133, 134
Influence, 255
Informational signaling, 257
Informative function, 110
Infrahumanization, 251
In-groups, 55, 272
collective emotion and preference, 55–57
intuitions, 272
In-group favoritism, 56
Inhibited children, 281
Inner conflict, 373
Inside Out (film), 4–5, 14
Insula, 166
Intentional objects, 156
Interactional synchrony, 292
Interdependence, 65
Interest, vocal expression for, 101
Intergenerational transmission, 298–299
Interleukin 6 (IL-6), 133
Internalizing, 310
International Classification of Diseases, 309
Interpersonal emotions, 61–62
Interpersonal relationships, and regulation, 361
Interpersonal role, 77
Interpretation, 11, 66, 112–113
Intersexual competition, 33–34
Intimate relationships, 230–237
marriage, 234–237
sexual love, 231–234
Intrasexual competition, 34
Intuitions:
spiritual and bodily purity, 272
status in hierarchies, 272

Inughuit, 371
Inuit, 111
Iowa Gambling Task, 140
IQ, 317
Isen, Alice, 27
Israeli–Palestinian conflict, 167
Izard, Cal, 46
Izard, Carroll, 93, 201

J
Jack, Rachael, 96, 97
Jahoda, M., 365
James, William, 10, 20, 120, 121–122, 135–138, 193, 194, 242, 265–266
James-Lange theory, 20
Japan, 66–67, 346
Japanese culture, 66
appraisal in, 154–155
emotional expression in, 112
Jealousy, 255
Jobs, Steve, 237
John-Anderson, Neha, 133, 246
Joint goals, 52
Jones, Matt, 86
Joy. See also Happiness
in babies, 202
as emotion word, 156
J.S. (patient), 184
Jurors, 275

K
Kaling, Mindy, 5
Kangaroo Care, 305
Kaplan and Sadock’s Synopsis of Psychiatry, updated with DSM-5, 338
Kashdan, Todd, 158
Katharsis, 13, 116
Keegan, John, 72
Kenny, D., 286
Ker, 60, 61
Kidneys, 131
Kim, Heejung, 65
Kindling, 355
Kitayama, Shinobu, 78
Knowledge structures, 65
Kok, B. E., 126, 127
Konstan, David, 70
Kragel, Philip, 192
Kramer, L., 300
Kramer, Peter, 360
Kreibig, Sylvia, 125
Kring, Ann, 361
Kung, 42

L
LaBar, Kevin, 192
Language:
gestural actions, 49
nonverbal sounds, 49
Language, evolution of, 49–51
Language development, 296
Laryngopharynx, 103
Larynx, 103
Lateral orbitofrontal region, 173
Laughter, 239–240
Laukka, Petri, 104
Law, emotions and the, 273–275
Lazarus, Richard, 144
Learning, 372
LeDoux, Joseph, 178
Lee, Ang, 158
Leeper, Robert, 144
Leigh, Janet, 144
Leveling mechanisms, 48
Levine, L., 268
Lieberman, Matthew, 187
Life-course models, 317
Life Events and Difficulties Interview Schedule, 347
Life Events and Difficulties Schedule, 347
Life events or difficulties, 346–349
Lifespan, emotionality over the, 280–282
Liking, wanting vs., 181
Limbic system, 173–175
Lindquist, Kristin, 187, 192
Linehan, M., 377
Listening to Prozac (Peter Kramer), 360
Literature, emotions in, 386–387
Litost, 156
Locally rational emotion, 256
Longitudinal studies, 282
Loss:
  and depression, 348, 350
  of a role, 348
Love, 121, 229
  compassionate, 237
  and core affect, 163
  displaying, 97
  as emotion word, 155
  and oxytocin, 175
  passion, 24
  romantic, 232–233
  sexual, 231–233
  Western ideal of, 75–77
Lovejoy, Owen, 230
Lutz, Catherine, 61–62, 78
Lyrical ballads (William Wordsworth), 73
Maladaptive person–context interactions, 314, 315
Malaysia, 155
Male, alpha, 45
Malthus, T, 259
Maltreatment, child, 324
Mammalian brain, 182
  adaptive behaviors, 175
  hypotheses, 177
  limbic system and regions, 175
  neurochemicals, 176
  oxytocin, 175–176
  positive, 176–177
  rodents, 175
  and social system, 176
Mania, 102, 341, 352
Manic-depressive disorder, 341
Manilow, Barry, 98
Marienthal mill, 365
Marital conflict, 324–325
Markus, Hazel, 78
Mar, Raymond, 195
Marriage, 234–237
Marshall, Lorna, 62
Martin, L.L., 136
Maruskin, Laura, 129
Masuda, Takahiko, 66
Mauss, Iris, 135
Mayberg, Helen, 351
Maynard-Smith, John, 350
Maternal depression, 327
Maternal diet, preventions targeting, 304
McRae, Kateri, 167
Medial prefrontal cortex, 180, 181, 186
Medulla, 172
Mehta, Pranj, 242
Melo, Hans, 28
Memory, emotion-related biases, 267–268
Men, cultural difference, 78
Mental disorders, 346
Mental disorders, childhood, 309–310
Mental health, free will and, 388
Mental illness, 338
Mentalization, parental, 292
Mentalizing, 208
Mentalizing therapy, 375
Mesquita, Batja, 167
Metaphors, 156–157
Method acting, 25
Moment-by-moment interactions, 241
Monkeys, 57, 174
Monogamy, 47
Monozygotic twins, 225, 319, 323
Mood:
  classical economics, 259–260
  Ultimatum Game, 259
Moral emotions, 109
Moral intuition, 271
Morality, 269
Moral judgment, 238, 269, 272
Moral Tribes (Joshua Greene), 56
Moving to Opportunity (MTO), study, 327
Muir, John, 128, 129
Multilevel perspective, 299, 314
Multisystemic treatment, 334
Muscatell, Keely, 140
Muscle movements, 138
Music, 115, 265, 387
Mutually rewarding orientation, 289–290
Maybridge, Eadweard, 184, 255
“My Oedipus Complex” (Frank O’Connor), 218
Mystery stories, 274
N
Naltrexone, 182
Narrative thinking, 384
Nasopharynx, 103
National Basketball Association, 108
Natural disasters, 356
Natural forces, emotions as, 156
Natural selection, 33–34
Natyasastra, 115, 117
Neanderthals, 48
Negative coercion cycle, 323
Negative emotion, 123–125, 280, 339, 362
Negative environments, adaptations to, 312
Negative life events, 283
Negative trauma, 147
Negativity bias, 216–217, 356
Neglect, 354
Nervous discharge, principle of, 91
Neuroaesthetics, 186
Neuroanatomy, 170
Neurobiological development of emotion regulation, 220–222
Neurochemicals, 171, 172, 175, 176, 183, 185, 320–321
Neuroendocrine system, 130, 132
Neuroimaging (neuroimaging studies), 172–173, 180, 188
Neurological factors, 172
Neuro-modulators, 172
Neurons, 170, 172
Neutral third party perspective, 305
New Hope project, 306
New Oxford Textbook of Psychiatry, 338
New Zealand, 339, 344
Niedenthal, Paula, 109, 141
Nigeria, 346
Nonverbal behavior, 88–91
Nonverbal communication, 88
Norepinephrine, 172
Novels, 386
Nucleus accumbens, 179, 180–182, 186, 322
Nummenmaa, Lauri, 136, 192
Parental behaviors, attachment:
Parasympathetic nervous system, 122, 220
Paradigm scenarios, 158
Paradigmatic thinking, 384–385
Papua New Guinea, 93
Panksepp, Jaak, 160, 175–177, 192, 194
Page, Tim, 229
Page, Tim, 229
Pain, 189, 190–191
Pair-bonding, 53
Panic attacks, 342
Panksepp, Jaak, 160, 175–177, 192, 194
Papa New Guinea, 93
Paradigmatic thinking, 384–385
Paradigm scenarios, 158
Parasympathetic nervous system, 122, 220
Parental behaviors, attachment:
awareness and accuracy, 292
biobehavioral synchronization, 292
mentalization, 292–293
mental state talk, 293
parental talk about emotions, 294
reflective capacity, 292–293
socialization, 295–299
Parental conflict, 331
Parental conflict, 331
Parental hostility, 323
Parental Meta-Emotion Philosophy (PMEP), 297
Parental sensitivity, 289–290
Parent–child interactions, 202
Parent–child relationship, 323
and intergenerational transmission, 298–299
Parenting:
differential, 300
differential, 300
education, 304
peers, 301–302
siblings, 300–301
social context, 302–303
stress, 327
Parent management training (PMT), 333
Parietal lobe, 173
Park, Bokyung, 113
Park, Bokyung, 113
Partner effect, 286
Passion, reason vs., 255–256
Pavlenko, Anna, 62
Pavlovian conditioning, 178
Peers, 301–302
Peptides, 172
Perceptual context, 102
Perceptual effects, 264–265
Perceptualmotor skills, 27
Periarcucltal gray, midbrain, 122–123
Person-centered therapy, 376
Persuasion, 269
Pessimism, 263
PET (positron emission tomography), 172
P factor, 314, 320, 322, 330, 335, 344, 350
Phelps, Elizabeth, 178
Phenylketonuria, 343
Philosophical approach, 15–17
Phobias, 342
Physiological approach, 18–21
Physiological change, emotional regulation
via, 219–220
Physiological differentiation, 123–125
Piff, Paul, 102
Pink, Steven, 71–72
Pituitary gland, 131
Pituitary adrenal axis, 108
Pituitary gland, 131
Placebos, 359
Play, in marriage, 235–236
Pleasure, 109–110, 202
Point-light expression (PLB), 213–214
Politeness, 167
Political world:
income-inequality, 389
international relationships, 389
personal emotions, 389
Politics, 274
Polygenic effects, 343
Pons, 172
Porges, Steven, 126
Positive contagion, 295
Positive emotion, 125–126, 264, 280–281, 353
Positive parenting programs, 305
Positive states, 27
Positron emission tomography (PET), 172
Post-traumatic stress disorder, 342–343
Postures, and recognition of emotion, 213–214
Poverty, 346
Power, 241, 244–245
Praise of Folly, 270–271
Pranayama breathing, 138
Preece, David, 158
Prefrontal cortex, 173, 180, 185–188, 322
Preoccupied style, 280
Prevalence, 312, 339–342
of bipolar disorder, 342
depression, 346
Pride, 99
bodily changes associated with, 134–138
development of, 209
and power, 242
Pride and Prejudice (Jane Austen), 232–233
Primary appraisal, 144, 145–147, 257
Primary emotions, 377
Primates:
emotional vocalization in, 107
grooming in, 108
relatives, 43
Priming, 147
Principle of antithesis, 91
The Principles of Art, 114
Principle of nervous discharge, 91
Principle of serviceable habits, 91
Prosocial behavior, 207, 220
Prototypes, 157–158
Proximal factors, 299, 323
Prozac, 176, 359, 360
Psychiatric health care, 381
Psycho (film), 144
Psychoactive drugs, 162, 359
Psychoanalysis, 374–376
Psychological approach, 11–12, 22–23
Psychological conditions, 116
Psychological therapy, mindfulness, 383
Psychometric assessment, 310
Psychoneuroimmunology, 362
Psychopathology, 309, 312–313
Psychopathic people, 360–361
Psychopathology, 309. See also Childhood psychopathology
abnormal emotions, 311–312
adaptations to negative environments, 312
alexithymia, 312
atypical emotional responses, 311
comorbidity, 313
emotional adaptation to negative environments, 312
emotion dysregulation, 312
genetics, 319–320
heterogeneity, 313
### Subject Index

- **hostile attribution bias**, 311
- **imbalance**, 311
- **inappropriate emotional responses**, 311
- **internalizing and externalizing**, 312–313
- **p factor**, 314
- **poor emotion regulation**, 311
- **predominance of one emotion system**, 311
- **transactional**, 314
- **transdiagnostic models**, 314
- **Psychopathy**, 360–361
- **Psychosocial stressors**, 321
- **Psychosomatic effects**, 362–363
- **Psychotherapy**, 372–381
- **anxiety disorders**, 381
- **availability of**, 381–382
- **cognitive-behavioral therapy**, 376–377
- **definition of**, 372
- **depression**, 381
- **emotion-focused therapy**, 377–378
- **group therapy**, 382
- **origins of**, 372, 373
- **outcomes of**, 378–381
- **psychoanalysis**, 374–376
- **Rogerian counseling**, 376
- **self-analysis**, 382
- **Quantitative genetics**, 319
- **Quoidbach, Jordi**, 158
- **Ranehill, E.**, 137
- **Rapport**, 165
- **Rasas**, 116, 117
- **Rationality**, 256
- **Readiness**, 257
- **Reappraisal**, 167, 188
- **Reason, passion vs.**, 255–256
- **Recognition of emotions**, 210–217
- **brain mechanisms and**, 216
- **facial expressions and**, 211–213
- **multimodal**, 214–216
- **and negativity bias**, 216–217
- **postures/gestures and**, 213–214
- **vocal expressions and**, 213
- **Reconciliation**, 251
- **Reflexes**, 173
- **Regret**, 208
- **Regulation**, 164–167
- **defined**, 164
- **and emotional development**, 218–224
- **emotion, prefrontal cortex regions**, 188–189
- **of expressive behavior**, 111
- **and free will**, 387–389
- **and personality**, 284
- **poor, in children**, 311
- **Regulators**, 88, 89
- **Regulatory balance**, 296
- **Relationships. See also Parent–child relationship attachment**, 287, 291
- **and evolution**, 56
- **hierarchical**, 241–247
- **intimate**, 230–237
- **Relative functioning**, 293
- **Remembering**, 266–269
- **Reptiles**, 174
- **Resistant attachment**, 288
- **Resources**, 302
- **Respiratory sinus arrhythmia (RSA)**, 287
- **Response format critique**, 95
- **Rewards**, 181, 183
- **Romeo and Juliet (William Shakespeare)**, 77, 386
- **Roseman, Ira**, 153
- **Rousseau, Jean-Jacques**, 73–75
- **Rowling, J. K.**, 248
- **Rutter, Michael**, 317
- **Rwanda**, 247–248, 251
- **Safety**:
  - touch as signal of, 108
  - vocal expression for, 105
- **Sages**:
  - chronic fear, 377
  - negative, 389
  - and depression, 352
  - as emotion word, 155
  - in infants, 203
  - vocal expression for, 105
- **School-based social and emotional learning (SEL) programs**, 305
- **Scripts**, 157
- **Secondary appraisal**, 145, 148–154, 257
- **Second movements**, 14
- **Securely attached infants**, 288
- **Secure attachment**, 288, 291, 323
- **Selection**, 33
- **Selection effects**, 303
- **Selection pressures**, 33–35
- **Selective serotonin reuptake inhibitors (SSRIs)**, 359
- **Self-adaptors**, 89
- **Self-compassion**, 352
- **Self-conscious emotions**, 158, 206
- **Self-conscious evaluative emotions**, 208
- **Self-construal, 64–65
- **Selfish gene**, 38
- **Sensitive period**, 325
- **Sentiment**, 30
- **Septum**, 179
- **Serotonin**, 172, 176, 226, 320, 359
- **Serotonin reuptake inhibitors**, 359
- **Serotonin transporter gene, see 5-HTT gene**
- **Serviceable habits, principle of**, 91
- **SET (social evaluative threat)**, 133, 134
- **Sexual activity, in primates**, 45
- **Sexual attraction**, 34
- **Sexual intercourse**, 234
- **Sexual love**, 231–234
- **Shakespeare, William**, 24, 77, 230, 271, 386
- **Shame**, 54, 158
- **bodily changes associated with**, 134–138
- **development of**, 209
- **vocal expression for**, 104
- **Shared intentionality**, 273
- **Shared thinking**:
  - and cooperation, 287, 292
  - parental sensitivity, 289–290
- **Sharing, verbal**, 154–160
- **Shelley, Mary**, 74
- **Shiota, Michelle**, 125
- **Siblings**, 300–301
  - differential parenting on, 323
- **Simpson, Jeff**, 232
- **Sin**, 15, 77
- **Singer, Peter**, 49
- **Singer, Tania**, 21, 187, 195, 260, 271
- **Situation, changing the**, 219
- **Smallwood, Jonathan**, 194
- **Smiling**, 110, 136, 202, 229, 244, 281
- **Smith, Phyllis**, 5
- **Social Brain**, 27
- **Social class**, 245–247
- **Social emotions**, 206–208
- **Social evaluative threat (SET)**, 134
- **Social inequality**, 344
- **Social interaction, coordination of**, 110
- **Socialization effects**, 303
<table>
<thead>
<tr>
<th>Subject Index</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social motivations, 348</td>
<td></td>
</tr>
<tr>
<td>Social rank theory, 242</td>
<td></td>
</tr>
<tr>
<td>Social referencing, 211</td>
<td></td>
</tr>
<tr>
<td>Social relationships, 52</td>
<td></td>
</tr>
<tr>
<td>and emotional intelligence, 252</td>
<td></td>
</tr>
<tr>
<td>friendships, 237–241</td>
<td></td>
</tr>
<tr>
<td>groups, 247–248</td>
<td></td>
</tr>
<tr>
<td>hierarchical relationships, 241–247</td>
<td></td>
</tr>
<tr>
<td>intimate relationships, 230–237</td>
<td></td>
</tr>
<tr>
<td>Social Relations Model, 286</td>
<td></td>
</tr>
<tr>
<td>Social rituals, 243</td>
<td></td>
</tr>
<tr>
<td>Social role, 24</td>
<td></td>
</tr>
<tr>
<td>Social sharing, 155</td>
<td></td>
</tr>
<tr>
<td>Social skills, 209, 294, 301</td>
<td></td>
</tr>
<tr>
<td>Social support:</td>
<td></td>
</tr>
<tr>
<td>and depression, 242</td>
<td></td>
</tr>
<tr>
<td>from friends, 240–241</td>
<td></td>
</tr>
<tr>
<td>Socioeconomic conditions, 328–329</td>
<td></td>
</tr>
<tr>
<td>Sociological approach, 24</td>
<td></td>
</tr>
<tr>
<td>Sociopathy, acquired, 184</td>
<td></td>
</tr>
<tr>
<td>Somatic marker hypothesis, 140</td>
<td></td>
</tr>
<tr>
<td>South Africa, 251</td>
<td></td>
</tr>
<tr>
<td>Sperry, Roger, 27</td>
<td></td>
</tr>
<tr>
<td>Spinal cord, 122</td>
<td></td>
</tr>
<tr>
<td>Split brain operations, 27</td>
<td></td>
</tr>
<tr>
<td>Spontaneous emotion, 135</td>
<td></td>
</tr>
<tr>
<td>Spreng, Nathan, 194</td>
<td></td>
</tr>
<tr>
<td>Sroufe, Alan., 314</td>
<td></td>
</tr>
<tr>
<td>Srebnica, Bosnia, 250</td>
<td></td>
</tr>
<tr>
<td>SSRIs (selective serotonin reuptake inhibitors), 359</td>
<td></td>
</tr>
<tr>
<td>Stace, Walter, 194</td>
<td></td>
</tr>
<tr>
<td>Stanford Prison Experiment, 387, 388</td>
<td></td>
</tr>
<tr>
<td>Starr, Gabrielle, 194</td>
<td></td>
</tr>
<tr>
<td>Status:</td>
<td></td>
</tr>
<tr>
<td>and facial expression, 97, 98</td>
<td></td>
</tr>
<tr>
<td>and hierarchical relationships, 241–247</td>
<td></td>
</tr>
<tr>
<td>Stellar, Jennifer, 126, 133</td>
<td></td>
</tr>
<tr>
<td>Stephen, S., 136</td>
<td></td>
</tr>
<tr>
<td>Stephen, P., 126</td>
<td></td>
</tr>
<tr>
<td>Stoicism, 13–15, 56, 256, 376</td>
<td></td>
</tr>
<tr>
<td>Stonewalling, 235</td>
<td></td>
</tr>
<tr>
<td>Stories, 386</td>
<td></td>
</tr>
<tr>
<td>Strack, F., 136</td>
<td></td>
</tr>
<tr>
<td>Strange Situation test, 288</td>
<td></td>
</tr>
<tr>
<td>Stress, 130–131, 241</td>
<td></td>
</tr>
<tr>
<td>Stress-diathesis hypothesis, 343</td>
<td></td>
</tr>
<tr>
<td>Stress reactions, 302</td>
<td></td>
</tr>
<tr>
<td>Striatal region, 174</td>
<td></td>
</tr>
<tr>
<td>Striatum, 180</td>
<td></td>
</tr>
<tr>
<td>Styles of processing, 263–264</td>
<td></td>
</tr>
<tr>
<td>Subcortical processes, 177–183</td>
<td></td>
</tr>
<tr>
<td>Submissive emotions, 133</td>
<td></td>
</tr>
<tr>
<td>Substance use disorders, 339–340</td>
<td></td>
</tr>
<tr>
<td>Sucrose, 181</td>
<td></td>
</tr>
<tr>
<td>Sumerians, 386</td>
<td></td>
</tr>
<tr>
<td>Superabundance, 33</td>
<td></td>
</tr>
<tr>
<td>Support:</td>
<td></td>
</tr>
<tr>
<td>parental, 321</td>
<td></td>
</tr>
<tr>
<td>social, 240–241, 353</td>
<td></td>
</tr>
<tr>
<td>Suppression, emotional, 166</td>
<td></td>
</tr>
<tr>
<td>Surprise, 155</td>
<td></td>
</tr>
<tr>
<td>facial expression for, 94</td>
<td></td>
</tr>
<tr>
<td>Susceptibility, differential, 318</td>
<td></td>
</tr>
<tr>
<td>Sweden, 379</td>
<td></td>
</tr>
<tr>
<td>Sympathetic nervous system, 122, 138</td>
<td></td>
</tr>
<tr>
<td>Sympathy, 21</td>
<td></td>
</tr>
<tr>
<td>Synapses, 170</td>
<td></td>
</tr>
<tr>
<td>Synchronization, 292</td>
<td></td>
</tr>
<tr>
<td>System 1, 263–264, 270</td>
<td></td>
</tr>
<tr>
<td>System 2, 263–264, 270</td>
<td></td>
</tr>
<tr>
<td>Systems models, 318</td>
<td></td>
</tr>
<tr>
<td>Sznycer, Daniel, 242</td>
<td></td>
</tr>
<tr>
<td>T</td>
<td></td>
</tr>
<tr>
<td>Tactile communication, 107</td>
<td></td>
</tr>
<tr>
<td>Tahiti, 156</td>
<td></td>
</tr>
<tr>
<td>Taiwanese, 155</td>
<td></td>
</tr>
<tr>
<td>Tannen, Deborah, 78</td>
<td></td>
</tr>
<tr>
<td>Taste, sense of, 35</td>
<td></td>
</tr>
<tr>
<td>Teasing, 34, 48, 188, 244</td>
<td></td>
</tr>
<tr>
<td>Temperament, 31, 222–226, 280, 317, 371</td>
<td></td>
</tr>
<tr>
<td>age-related changes in, 284–285</td>
<td></td>
</tr>
<tr>
<td>to personality, 282–283</td>
<td></td>
</tr>
<tr>
<td>Temperamental traits, 302</td>
<td></td>
</tr>
<tr>
<td>Temporal lobe, 173</td>
<td></td>
</tr>
<tr>
<td>Temporal regions, 193</td>
<td></td>
</tr>
<tr>
<td>Testosterone, 132, 177, 242</td>
<td></td>
</tr>
<tr>
<td>Thalamus, 172, 174, 178</td>
<td></td>
</tr>
<tr>
<td>Theories of emotion, 28–29, 201–202</td>
<td></td>
</tr>
<tr>
<td>Theory of mind, 189, 209</td>
<td></td>
</tr>
<tr>
<td>Theory-of-mind network, 189</td>
<td></td>
</tr>
<tr>
<td>Therapy of Desire (Martha Nussbaum), 15</td>
<td></td>
</tr>
<tr>
<td>Thrash, Todd, 129</td>
<td></td>
</tr>
<tr>
<td>Thick descriptions, 60</td>
<td></td>
</tr>
<tr>
<td>Things Fall Apart (Chinua Achebe), 73</td>
<td></td>
</tr>
<tr>
<td>Ticks, 256–257</td>
<td></td>
</tr>
<tr>
<td>TMS (transcranial magnetic stimulation), 172</td>
<td></td>
</tr>
<tr>
<td>Todas, 67</td>
<td></td>
</tr>
<tr>
<td>Tomasetto, Michael, 51, 200</td>
<td></td>
</tr>
<tr>
<td>Tomkins, Sylvan, 22–23, 93, 134</td>
<td></td>
</tr>
<tr>
<td>Touch, communication by, 108–109</td>
<td></td>
</tr>
<tr>
<td>Toxic emotional behaviors, 235</td>
<td></td>
</tr>
<tr>
<td>Trachea, 103</td>
<td></td>
</tr>
<tr>
<td>Tracy, Jessica, 99, 243</td>
<td></td>
</tr>
<tr>
<td>Tranquilizers, 374</td>
<td></td>
</tr>
<tr>
<td>Transdiagnostic models, 335</td>
<td></td>
</tr>
<tr>
<td>Transcranial magnetic stimulation (TMS), 172</td>
<td></td>
</tr>
<tr>
<td>Transference, 374–376</td>
<td></td>
</tr>
<tr>
<td>Trauma, 147, 343, 373</td>
<td></td>
</tr>
<tr>
<td>Traumatic events, 373</td>
<td></td>
</tr>
<tr>
<td>Treasure of the Sierra Madre (film), 189</td>
<td></td>
</tr>
<tr>
<td>Tribalism, 47, 49</td>
<td></td>
</tr>
<tr>
<td>Trier Social Stress Task, 130, 131</td>
<td></td>
</tr>
<tr>
<td>Triple-P program, see Positive parenting programs</td>
<td></td>
</tr>
<tr>
<td>“Trolleyology,” 271</td>
<td></td>
</tr>
<tr>
<td>Trust, 110, 184, 232, 239, 260, 274, 282, 290, 328, 345–346</td>
<td></td>
</tr>
<tr>
<td>Tsai, Jeanne, 68, 111, 113</td>
<td></td>
</tr>
<tr>
<td>Tutsi, 247, 251</td>
<td></td>
</tr>
<tr>
<td>Twin studies, 225, 292, 319–320</td>
<td></td>
</tr>
<tr>
<td>Trier Social Stress Task, 130, 131</td>
<td></td>
</tr>
<tr>
<td>Ukraine, 52</td>
<td></td>
</tr>
<tr>
<td>Ultimatum Game, 259</td>
<td></td>
</tr>
<tr>
<td>Unconditioned stimulus, 178</td>
<td></td>
</tr>
<tr>
<td>Unconscious processes, 265</td>
<td></td>
</tr>
<tr>
<td>Undesirable social attention, 127</td>
<td></td>
</tr>
<tr>
<td>United States:</td>
<td></td>
</tr>
<tr>
<td>income inequality in, 345</td>
<td></td>
</tr>
<tr>
<td>prevalence of mental disorders in, 346</td>
<td></td>
</tr>
<tr>
<td>Up (film), 4</td>
<td></td>
</tr>
<tr>
<td>Ur-emotions, 149, 161</td>
<td></td>
</tr>
<tr>
<td>Urgency, 6</td>
<td></td>
</tr>
<tr>
<td>Us-versus-them thinking, 251</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Vagal complexes, 126</td>
<td></td>
</tr>
<tr>
<td>Vagal tone, 126, 127, 317</td>
<td></td>
</tr>
<tr>
<td>Vagus nerve, 126, 137, 138</td>
<td></td>
</tr>
<tr>
<td>Valdesolo, Piercarlo, 249</td>
<td></td>
</tr>
<tr>
<td>Valence, 192</td>
<td></td>
</tr>
<tr>
<td>Value-based emotions, 61–62</td>
<td></td>
</tr>
<tr>
<td>Values, 67–69</td>
<td></td>
</tr>
<tr>
<td>Van de Ven, Niels, 243</td>
<td></td>
</tr>
<tr>
<td>van Dijk, Corine, 128</td>
<td></td>
</tr>
<tr>
<td>Variation, 33, 320</td>
<td></td>
</tr>
<tr>
<td>patterns of, 152–154</td>
<td></td>
</tr>
<tr>
<td>The Varieties of Religious Experience (William James), 369, 382</td>
<td></td>
</tr>
<tr>
<td>Veiled Sentiments (Abu-Lughod, Lila), 26</td>
<td></td>
</tr>
<tr>
<td>Vervet monkeys, 106, 107</td>
<td></td>
</tr>
<tr>
<td>V reserve cortical area (VTA), 179</td>
<td></td>
</tr>
<tr>
<td>Ventrailal medial prefrontal cortex, 180</td>
<td></td>
</tr>
<tr>
<td>Ventrat striatum, 180, 240</td>
<td></td>
</tr>
<tr>
<td>Ventratal tegmental area (VTA), 179</td>
<td></td>
</tr>
<tr>
<td>Ventravagal complex, 126</td>
<td></td>
</tr>
<tr>
<td>Verbal sharing, 154–159</td>
<td></td>
</tr>
<tr>
<td>Vertigo (film), 154</td>
<td></td>
</tr>
<tr>
<td>Violence, 71–72</td>
<td></td>
</tr>
<tr>
<td>interpersonal, 75</td>
<td></td>
</tr>
<tr>
<td>Violent crime, 330</td>
<td></td>
</tr>
<tr>
<td>Visual cortex, 177, 186</td>
<td></td>
</tr>
<tr>
<td>Vocal apparatus, 103</td>
<td></td>
</tr>
<tr>
<td>Vocal bursts, 104</td>
<td></td>
</tr>
<tr>
<td>Vocal communication, 102–107</td>
<td></td>
</tr>
<tr>
<td>Vocal cord, 103</td>
<td></td>
</tr>
<tr>
<td>Vocal expressions, and recognition of emotion, 213</td>
<td></td>
</tr>
<tr>
<td>Voice, communication of emotions with, 104–107</td>
<td></td>
</tr>
<tr>
<td>Voles, 175</td>
<td></td>
</tr>
<tr>
<td>Vrshek-Schallhorn, Suzanne, 349</td>
<td></td>
</tr>
<tr>
<td>VTA (ventral tegmental area), 179</td>
<td></td>
</tr>
<tr>
<td>Subject</td>
<td>Page(s)</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Wagenmakers, E. J.</td>
<td>136</td>
</tr>
<tr>
<td>Wagner, Richard</td>
<td>115</td>
</tr>
<tr>
<td><em>Walden Two</em> (B.F. Skinner)</td>
<td>18</td>
</tr>
<tr>
<td><em>The Waning of the Middle Ages</em> (Johann Huizinger)</td>
<td>70</td>
</tr>
<tr>
<td>Wanting, liking vs.</td>
<td>181</td>
</tr>
<tr>
<td>War trauma</td>
<td>343</td>
</tr>
<tr>
<td>Wealth</td>
<td>371</td>
</tr>
<tr>
<td><em>Welcome to the Sticks</em> (film)</td>
<td>159–160</td>
</tr>
<tr>
<td>Well-being</td>
<td>370–372</td>
</tr>
<tr>
<td>Well-being therapy</td>
<td>378</td>
</tr>
<tr>
<td>Wheatley, Talia</td>
<td>115</td>
</tr>
<tr>
<td>Whitehall Studies</td>
<td>362</td>
</tr>
<tr>
<td>Whitman, Walt</td>
<td>54</td>
</tr>
<tr>
<td>Whittle, Sarah</td>
<td>193</td>
</tr>
<tr>
<td>Winkielman, Piotr</td>
<td>141, 146</td>
</tr>
<tr>
<td>Wolfe, Tom</td>
<td>341</td>
</tr>
<tr>
<td>Women, cultural difference</td>
<td>78</td>
</tr>
<tr>
<td>Wood, Adrienne</td>
<td>104</td>
</tr>
<tr>
<td>Work</td>
<td>5</td>
</tr>
<tr>
<td>World Health Organization (WHO)</td>
<td>326, 340</td>
</tr>
<tr>
<td>Wordsworth, William</td>
<td>73</td>
</tr>
<tr>
<td>World War II</td>
<td>23, 72, 283, 343, 387</td>
</tr>
<tr>
<td>Wozniak, David</td>
<td>237</td>
</tr>
<tr>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Yahweh</td>
<td>386</td>
</tr>
<tr>
<td>Yanomamo</td>
<td>242</td>
</tr>
<tr>
<td><em>You Just Don’t Understand</em> (Deborah Tannen)</td>
<td>78</td>
</tr>
<tr>
<td>Z</td>
<td></td>
</tr>
<tr>
<td>Zajonc, Robert</td>
<td>146</td>
</tr>
<tr>
<td>Zimbabwe</td>
<td>346</td>
</tr>
</tbody>
</table>