

# Index

*Page numbers in italics indicate figures.*

A-beta fibers, 33, 35, 37, 253–255, 305, 340.

*See also* Nerve; A-nociceptors

Aching, 138–139, 182, 199–206, 212–214, 217, 223, 254

Act–object analysis, 6–7, 9, 13, 15, 19, 21, 45

Adaptation, 230–231, 333

A-delta fibers, 33, 35, 305, 334, 338, 340, 350. *See also* Nerve

Adverbialism, 9, 11, 19–21, 46

Affect, 44, 50n.35, 108, 132, 339, 354, 356, 360, 369, 372, 373. *See also* Pain, affect attenuation, 360

negative, 16–17, 29, 32, 50n.35, 50n.38, 51n.44, 130

phenomenology of, 25

primary, 336

secondary, 49, 336

Affective-emotional, 130, 132, 159–160.

*See also* Affective-motivational

Affective-motivational, 40, 43, 356, 358. *See also* Affective-emotional

Agnosia, 321–322

Allodynia, 31, 336–337, 340, 357

Amygdala (A), 38, 40, 41, 196n.5, 325, 335

Analgesia, 177, 300. *See also* Analgesic

Analgesic, 2, 177, 229, 232–234, 237–238, 357, 359, 379. *See also* Analgesia

Analogical argument, 351–351, 358, 362

Angell, J. R., 378

Anhedonia, 343

Animal models, 301, 358, 368–369, 377

Animal psychology, 248

A-nociceptors, 255, 350. *See also* A-beta fibers

Anosognosia, 320–322

Anterior cingulate cortex (ACC), 38, 40, 256, 258, 302, 310–311, 335, 339–340, 353–356, 360, 374–375, 377

Anterior white commissure, 37

Anterolateral quadrant (ALQ), 37

Antinociceptive effect, 357

Anton-Babinski syndrome, 320

Appearance–reality distinction, 4, 71, 74, 77, 96, 97n.1, 140

Aristotle, 226, 231

Armstrong, D., 9–10, 18, 21–22, 24–25, 45n.6, 46n.13, 46n.14, 47n.18, 47n.19, 49n.29, 70n.5, 116n.1, 125, 129–130, 135n.5, 206, 208, 218n.4, 250, 269n.10

Aspirin, 229

Asymmetry (in concept application), 13–14, 17, 25, 27, 29

Attention (as a mental faculty), 40, 76–78, 80, 89, 107–108, 114, 126, 133–134, 177, 182, 185, 190, 193–194, 197, 199, 201, 205, 215, 217n.1, 226, 236, 245–246, 261, 273, 281, 285–286, 302, 375

Attribution, 22, 67, 363. *See also* Pain, attribution

of concept, 212

conceptual, 208–209, 211, 214

- Attribution (cont.)  
 perceptual, 207, 208, 212–213, 217, 218n.5  
 of physical condition, 126, 133n.1  
 of property, 3, 124  
 sensuous, 203–205, 209–212, 217n.1, 218n.3  
 sentences, 25, 130
- Aune, B., 46n.16
- Autonomic nervous system, 375
- Aversiveness, 187, 190, 358, 360–361, 381.  
*See also* Painful
- Avicenna, 227, 240
- Awareness  
 awareness-of, 164  
 awareness-that, 145, 164  
 fact-awareness, 60, 69n.1  
 object-awareness, 69n.1
- Aydede, M., 113–115, 118n.11, 140, 142n.1, 151, 159, 160, 163–167, 217, 345, 347n.13, 347n.15, 363
- Barber, T., 32
- Barrell, J. J., 243, 258–259, 261, 269–273, 303, 315
- Basbaum, A. I., 50n.36, 97n.2, 357
- Baxter, D. W., 32, 300
- Beecher, H. K., 232, 300
- Behavior. *See also* Pain, behavior  
 anomalous, 370  
 avoidance, 359–361  
 emotional, 40, 377  
 guarding, 361  
 instinctual, 211, 370  
 intentional, 85  
 nursing, 362  
 purposeful, 359, 361  
 recuperative, 369  
 reflexive, 357–368  
 social, 380  
 withdrawal, 357–358  
 verbal, 245, 321
- Behaviorism, 244–245, 252, 291–292. *See also* Behaviorist
- Behaviorist, 43, 244, 252, 292, 301. *See also* Behaviorism
- Benatar, D., 367, 371
- Berkeley, G., 4
- Berridge, K. C., 51n.45
- Berthier, M. L., 32
- Binding, 267, 337
- Block, N., 48n.26, 104, 118n.9, 163, 166–167, 169–172, 174n.6, 179, 195n.3, 267n.1, 327, 331, 346n.7, 47n.19
- Bodily sensations, 7–8, 11, 14, 16–17, 25, 46n.13, 48n.24, 59, 70n.5, 75, 83, 86, 99, 137, 141, 206, 269n.12, 317. *See also* Sensory
- intransitive, 7–17, 23–25, 27–29, 42, 45n.6, 46n.14, 130, 132–133, 135n.5, 135n.6, 268n.3
- transitive, 46n.14
- Bonica, J. J., 35, 39, 49n.33, 225
- Bouckoms, A. J., 32
- Brain stem, 33, 38, 374
- Brand, P. W., 32, 193–194
- Broad, C. D., 45n.7
- Burge, T., 71n.12
- Buytendyck, F. J. J., 269n.20
- Byrne, A., 25, 174n.2
- Capsaicin, 300, 337, 351
- Cartesian  
 dualism, 244, 323 (*see also* Substance dualism)  
 interactionism, 311, 323  
 theater, 231
- Cartesian transparency thesis (CTT), 319–322
- Casey, K., 36–38, 40, 106, 353, 361
- Categorization, 4, 6, 43, 44n.1, 123–124, 127, 219, 229, 231, 235, 322
- Causalgia, 32, 177, 361
- Causal powers, 76, 85–87, 209–211, 217, 218n.5
- Causation, 209, 212, 214, 216, 247, 323
- Central pain, 253, 300

- C-fibers, 33, 35, 181, 253, 308, 312n.1, 314n.3, 334, 338, 340, 345n.3, 347n.14. *See also* C-nociceptors; Nerve
- Chalmers, D., 51n.41, 71n.7, 71n.13, 99, 219, 267n.1, 268n.5, 326, 332–333, 345n.1, 345n.2, 346nn.6–7, 346n.11
- Chapman, C. R., 235, 236
- Cingulotomy, 32, 360
- C-nociceptors, 254–255, 257. *See also* C-fibers; Nerve
- Codeine, 229
- Coding, 267, 300, 334, 344, 360, 365, 387  
 affect, 339  
 intensity, 337  
 location, 338  
 sensory, 340  
 temporal, 338  
 type, 337
- Coghill, R. C., 310, 320, 322, 356, 368
- Cognition, 81, 95, 211, 313n.7, 351–352, 380
- Cognitive psychology, 77, 79, 96, 309
- Cognitive reaction, 28, 107, 116, 130
- Cognitive science, 93, 259, 280
- Cognitive states, 24, 245, 279, 308–309
- Cognitivism, 130, 244. *See also* Mentalism
- Common sense, 92–93
- Complexity, 78, 91, 237, 303, 308, 313n.3, 372
- Computational processes, 42, 179, 245–246, 267n.1
- Concept  
 application, 1, 13–18, 21–22, 25, 27–29, 43  
 demonstrative, 78, 88  
 perceptual, 123–124, 208–213, 215  
 possession conditions, 44, 66–69, 81–87, 91–93
- Conception. *See* Pain, commonsense concept of
- Conceptualization, 295
- Conceptual scheme, 44, 81, 93, 96, 294–295, 297n.1, 318, 322
- Conditioning  
 aversive, 185  
 delay, 356  
 instrumental, 351  
 long-term, 361  
 operant, 356, 358, 361  
 Pavlovian, 351  
 trace, 356
- Consciousness. *See* Awareness; Phenomenal; Qualia; Experience; Sensory
- Content  
 abstract, 134  
 conceptual, 103, 112, 143–147, 164, 168, 174n.4, 207, 210, 217, 218n.5  
 Fregean, 168  
 intentional, 43, 144, 147  
 of mind, 244  
 nonconceptual, 103, 143–147, 164, 168, 174n.5  
 perceptual, 174n.24, 208  
 phenomenal, 28–29, 111–112, 127–129, 131, 160–161, 269n.17  
 poised, 112, 139, 146, 166, 172  
 propositional, 71n.12, 114  
 qualitative, 28, 130, 183  
 representational, 25–29, 48n.25, 48n.26, 91, 93, 99, 103, 107–108, 111–112, 115–116, 118n.6, 127–128, 130, 132, 137–139, 143–149, 160, 165–170, 172, 207, 269n.12, 299 (*see also* Representation)  
 semantic, 21, 87–88, 92–93, 151, 252 (*see also* Semantics)  
 sensory, 28, 106, 182–183  
 sensuous, 205, 207–208, 210–214, 217–218
- Correlation (mind–brain, psychophysical–neural), 230–231, 248, 250, 256, 259, 265–266, 270n.32, 286–287, 291–292, 295, 297, 309–312, 323, 326, 333
- Craig, K. D., 235–236, 304, 339, 369, 371, 373
- Critchley, H. D., 375–376
- Cyberostracism, 374
- Dallenbach, K. M., 49n.33, 225, 229–230

- Damasio, A., 167, 237, 270n.30, 327, 375, 377
- Darwin, E., 228
- Davidson, D., 46, 297n.1
- Dendrites, 43
- Dennett, D., 106
- Derbyshire, S. W. G., 367–368, 371
- Descartes, R., 22, 30, 59, 196n.8, 196n.10, 197n.13, 227–228, 345n.1
- Devinsky, O., 32, 375
- Diaphanousness, 137, 139
- Direct realism, 6, 8, 18, 23, 25–26, 47. *See also* Sense-datum theories
- Disassociation, 31–32, 36, 40–41, 49n.35, 50n.39, 106, 322
- Discrimination, 50, 177, 180, 183, 189, 293, 360
- Dispositions, 81–82, 84, 86–87, 93, 143–144, 160, 168–169, 179, 186–187, 189–190, 192, 197n.11, 210, 215–216, 236. *See also* Property
- Dong, W. K., 32, 50n.39
- Dorsal horn, 33–35, 37, 192, 255, 334, 341
- Dretske, F., 10, 25, 48n.23, 133n.3, 135n.10, 137, 144, 147, 171, 269n.11, 269n.17
- Drive, 43, 132, 185–187, 235, 355, 361
- Dualism, 111, 249–250, 295–297, 309, 311  
 Cartesian (*see* Cartesian, dualism)  
 epistemological, 249–250, 311  
 metaphysical, 247, 250, 308  
 operational, 300  
 property, 247  
 substance, 323
- Ducasse, C. J., 46n.16
- Dunlap, K., 278
- Dysaesthesia, 5, 106, 267n.2
- Einstein, A., 189
- Eisenberger, N. I., 355, 373–376, 381
- Elementarism, 283
- Eliminative materialism, 309
- Emotions, 30, 85, 196n.9, 230, 234, 236, 311, 325, 368, 372, 378, 389
- Empathy, 367, 378–379
- Endogenous modulatory mechanisms, 33, 36, 50n.36. *See also* Modulatory
- Epicritic system, 181
- Epiphenomenalism, 247–249, 308, 311, 313n.8. *See also* Dualism
- Epistemic asymmetry, 44n.4, 292–294, 318, 322
- Epistemic authority, 4, 59, 60, 68, 84, 244
- Epistemology, 2, 142, 243, 258, 264, 295
- Error theory (of pain attribution sentences), 22
- Evaluative perception, 204, 209
- Evans, G., 67
- Evolutionary (evolution), 16, 43, 81, 90, 171, 240, 331–333, 343–344, 352, 367–369, 371–373, 377, 380, 384–386
- Experience. *See also* Subjective, experience  
 auditory, 218n.7  
 color, 110, 115–116, 128, 138, 170–172, 325  
 emotional, 5, 100, 131, 167–168, 267n.2, 304, 325, 33, 377  
 perceptual, 6, 12, 14–15, 24–25, 27–29, 44, 46n.16, 70n.6, 82–84, 95, 99, 127, 129, 143–145, 148–149, 164, 168, 174n.4, 233, 245–246, 277, 299, 304, 323  
 psychophysical, 255 (*see also* Psychophysics)  
 sensory, 2, 5, 45, 48, 94, 100, 106, 115, 131, 134, 167, 267n.2, 304, 317, 319, 333, 359  
 visual, 6, 12, 19, 27, 46n.17, 84, 99, 109–112, 125, 128, 137, 140, 148, 160–161, 163, 165–169, 246, 279
- Experiential-phenomenological approach, 243, 254
- horizontal phase, 243, 259, 260, 264–266, 281, 284, 295, 309, 312
- vertical phase, 243, 259, 265–266, 282, 284, 303, 309, 312, 333
- Explanatory gap, 51n.42, 325–329, 332–333, 335, 341, 345, 346n.3, 346n.4, 346n.7, 346n.8, 346n.11
- Exportation, 101–103, 170
- Exteroception, 115, 127

- Feigl, H., 247, 270n.31
- Fechner, G. T., 231
- Fields, H. L., 44n.5, 50n.36, 269n.19, 301, 357–358, 361
- First-person
- access, 254, 258, 315–316, 322
  - approach, 243, 259, 265, 278
  - ascriptions, 83, 85–86, 114
  - authority, 59, 68
  - conception, 115, 320
  - data, 280, 286–287, 318, 322
  - description, 286–287
  - epistemology, 243, 249
  - experience, 243, 291, 300–301, 303
  - experiment, 304
  - exploration, 264
  - expression, 245, 286
  - judgment, 83
  - knowledge, 24, 315, 317
  - methodology, 249–251, 304
  - methods, 243–244, 247–248, 250–251, 258, 288, 293–295
  - perspective, 73, 246, 253, 258, 260, 279–280, 295, 303
  - phase, 303–304
  - reports, 261, 279–281, 286–287, 291–293, 297, 301, 311, 313, 317
  - understanding, 262
- Flanagan, O., 269n.14, 327, 329–331
- Fleming, N., 9
- fMRI. *See* Functional magnetic resonance imaging (fMRI)
- Fodor, J., 48n.25
- Folk psychology, 93
- Foltz, E., 32, 354, 378
- Freeman, W. J., 32
- Frege, G., 92, 268n.6
- Friedman, E. D., 32
- Frontal cortex, 36–38
- Fuchs, P. N., 351, 353, 357, 358–360
- Functionalism, 71n.11, 132, 195n.3, 245
- Functional magnetic resonance imaging (fMRI), 267n.6, 374–375, 381
- Gabapentin, 359
- Galen, 226–227
- Gallagher, S., 277, 315–318
- Gate-control theory, 33, 36, 49n.34, 50n.36
- Gendlin, E. T., 263
- Gestalt, 235, 261
- Global indiscriminability, 183, 185–186, 195n.4, 196n.4
- Goldscheider, A., 34f.
- Gracely, R. H., 49n.35
- Graham, G., 9, 345
- Grahek, N., 32, 45n.13, 50n.39
- Grau, J. W., 351–352, 356–358, 363
- Gray matter, 33, 37
- Grice, H. P., 45n.13
- Hallucination, 6–7, 11, 15, 19, 23, 46n.17, 65, 110, 134n.3, 134n.4, 138, 163, 169
- Hardcastle, V., 44n.5, 50n.36, 178, 192, 353, 356
- Hardy, J. D., 32
- Harvey, William, 228
- Head, H., 31, 50n.37
- Higher-order perception (HOP), 251, 312
- Higher-order thought (HOT), 251, 312
- Husserl, E., 269n.20, 269n.22, 270n.25, 279, 285, 296, 297
- Hyperalgesia, 31, 336–337, 340, 357–358, 360
- Hypnosis, 50n.40. *See also* Hypnotic suggestion
- Hypnotic suggestion, 32, 106, 234, 256–257, 339, 354. *See also* Hypnosis
- Hypoalgesia, 357–358
- Hypothalamus (H), 38, 196n.5
- Hypotheses (definitional, functional), 262–264
- IASP, 5, 12, 31, 100, 267n.2, 307, 317
- Identity theory, 288n.1, 307, 311, 312n.1, 313n.3, 313n.8, 328
- Illusion, 7, 11, 18–19, 23, 76, 95–96, 100, 134n.3, 159, 163, 285. *See also* Thermal grill illusion

- 'In,' senses of, 103–106, 117–118, 151–158
- Incorrigibility, 3, 8, 22, 44n.4, 231. *See also* Infallibility; Unrevisability
- Indication, 251–252, 358. *See also* Tracking
- Indirect realism, 6, 11, 13–16, 18, 21, 23, 25–26, 45n.9, 47n.21, 142n.1, 199. *See also* Sense-datum theories
- Infallibility, 4, 68. *See also* Incorrigibility; Unrevisability
- Inference failure, 104–105, 117, 152–153, 156–158. *See also* Substitution; Exportation
- Informational semantics, 26, 48n.25, 131–132, 135n.6, 135n.10. *See also* Psychosemantics
- Inner sense, 251. *See also* Introspection
- Insular cortex (IC), 40, 50
- Intentionalism, 11, 19, 22, 27, 46n.17, 85, 99, 126, 166. *See also* Representationalism
- Intentionality, 11, 19, 22, 27, 46n.17, 71n.12, 188
- Intrinsic optical density (OIS), 255
- Introspection, 24, 26, 28–29, 43, 44, 48n.23, 48n.28, 48n.29, 51n.46, 62, 110–115, 127–129, 132–133, 135n.6, 144–145, 164–165, 225, 231, 243–253, 258–259, 261, 263, 268n.7, 269nn.11–12, 270n.29, 277–281, 283, 284–287, 288n.1, 291–293, 301–303, 307–310, 312–317, 323. *See also* Inner sense
- indispensability of, 243, 248, 250, 258, 278, 317
- limitations of, 302–303
- passive, 254, 260–261, 279n.29, 281, 295, 309, 312, 316, 318
- Introspectionism
- classical, 244, 259, 261, 283, 309–310, 312, 313n.4
- new, 218, 283–284
- Jack, A. I., 218, 283, 313n.4
- Jackson, F., 45n.8, 46n.16, 104, 134n.4, 169, 268n.5, 326, 332, 333, 345n.2, 346nn.6–7
- James, W., 50n.38, 183, 278, 309, 331
- Judgment. *See also* First-person; Third-person introspective, 132, 319–321
- Katz, L., 191
- Knowledge, 6, 66–72. *See also* Judgment introspective, 48–49n.29, 114. *See also* First-person
- Kraut, R., 46n.16
- Kripke, S., 4, 59, 189, 268n.5, 307–308, 312–313n.1, 345n.1
- LaGraize, S. C., 358, 360
- Laminae (dorsal horn), 33, 35, 38, 334
- Landau, W., 253–254
- Lateral pain system, 38, 39, 40, 51n.41, 181
- Ledoux, J., 327
- Leeds, S., 108–109, 118
- Leonardo da Vinci, 227
- Lesions (brain), 360
- Levine, J., 268n.5, 326, 345n.2
- Lewis, D., 179–180, 190, 330, 346n.10
- Lewis, T., 353–354
- Limbic forebrain structures (LFS), 38
- Limbic system, 36, 38, 40, 177, 181, 191, 219, 360–361, 380
- Livingston, W. K., 34f.
- Lobotomy, 32, 177
- Localization (of stimulus), 49n.35, 340
- Location (intentional), 22, 126
- Locke, J., 269n.10, 316
- Lutz, A., 281, 285, 266, 287, 287nn.1–6
- Lycan, W., 45n.11, 46n.16, 47n.18, 46n.24, 49n.29, 51n.46, 70n.5, 268n.5, 269n.10
- Mapping, 37, 209, 230, 309, 312, 329
- Marcel, A. J., 280–281, 283
- Marshall, H. R., 50n.38, 234
- Materialism, 10, 178, 307–309. *See also* Naturalism; Physicalism
- Maund, B., 109, 103, 118n.9, 131, 143, 160, 163–164, 166–169
- Mayberry, T. C., 45n.13
- McGill Pain Questionnaire, 222–224

- McGinn, C., 27, 99, 138
- McKenzie, J. C., 9, 46n.13
- McMurray, G. A., 32
- Meaning, 80, 154, 217, 225, 234–237
- Medial and intralaminar thalamic nuclei (MIT), 38
- Medial pain system, 38, 39, 40–41, 281, 192, 335, 339, 374–375
- Melzack, R., 33–34, 3–38, 38, 40, 44n.5, 49nn.33–34, 50n.36, 106, 118n.5, 182, 221, 234–235, 335, 343, 353, 358, 361
- Mental. *See* Phenomenal; Experience
- Mentalism, 244. *See also* Cognitivism; Introspectionism
- Merleau-Ponty, M., 269n.20, 269n.22, 270n.25, 270n.28, 296
- Metaphysics, 2, 43, 91, 131, 173. *See also* Ontology
- Methodology, 44, 249, 257, 283, 291–297, 309
- first-person, 249–251, 304, 309–314, 319, 323, 347n.13, 357
- Millan, M. J., 192, 196n.5, 343
- Millikan, R., 48n.25
- Misperception, 4, 7, 13, 15. *See also* Misrepresentation; Nonveridical
- Misrepresentation, 15, 95–96, 159, 167, 206, 209, 213. *See also* Misperception; Nonveridical
- Modulatory (gating, control), 33, 34, 36, 50n.36, 94, 361
- Monism, 249–250, 269n.9, 311, 370
- Moore, G. E., 45n.10, 137
- Morphine, 32, 354, 359–361, 376
- Motivation, 132, 210, 224, 234, 256, 360. *See also* Drive
- Motor response, 43, 226, 279, 301, 351, 375
- Müller, J., 30, 228–229
- Naive realism. *See* Direct realism
- Naturalism, 26, 30, 43, 270n.32. *See also* Materialism; Physicalism
- Natural kind, 346n.11
- Nelkin, N., 353
- Neospinothalamic tract (nSTT), 36, 38, 39
- Nerve, 10, 38, 193, 226–229, 268, 339
- bundles, 268
- cells, 33, 253, 300
- damage, 185, 194
- endings, 10, 30, 43, 230, 234
- energies, 30
- fibers, 35, 43
- impulses, 34, 253
- injury, 357, 359–360
- peripheral, 35, 43, 185, 300, 357
- sensory, 133n.2, 228–229
- types, 229
- Nervous system, 36, 69n.1, 108, 124, 191, 208, 226–228, 248, 255, 257, 269n.17, 300–301, 308, 333–334, 336, 340, 342–343, 351–352, 367, 370, 373, 375
- Neuralgia, 32, 177, 220
- Neuron
- afferent, 37, 300, 334, 337, 347–348, 350
- interneurons, 341
- mirror, 378
- nociceptive, 38, 89, 360
- peripheral (first-order), 308 (*see also* Peripheral nervous system)
- projection (transmission), 33–34, 38, 335
- second-order (transmission), 33, 37, 334, 340
- third-order, 38
- wide dynamic range (WDR), 38
- Neurophenomenology, 269n.14, 281, 285
- Neurotransmitter, 300, 340, 342
- Newton, N., 9
- Nitrous oxide, 32, 106
- Nocebo, 233
- Nociception, 32, 36, 40, 227, 300, 303, 351, 356–357, 359, 361
- Nociceptive neurons (NS), 38, 89, 360. *See also* A-delta fibers; C-fibers
- Nomological dangler, 247

- Nonveridical (perception, experiences), 6, 11, 19, 23, 100, 138, 169, 337. *See also* Misperception; Misrepresentation
- Noordenbos, W., 34f.
- Noordhof, P., 104–106, 117n.4, 151, 163, 165, 172–174
- Normal Situations (perception in NS), 1, 3–4, 6–7, 11–15, 18, 23–26, 28, 38–39
- Noxious stimuli, 5, 33, 36, 38, 112, 230, 232, 236, 253, 300, 308, 317, 333, 336, 338–340, 343, 351–352, 355–358, 361. *See also* Nociception
- Objectivism, 171, 249
- Objectivity, 4, 244
- Ontology, 20, 295, 308. *See also* Metaphysics
- Opioid systems, 352–353, 370, 376–377
- Opium, 32, 229
- Orbitofrontal cortex, 38
- Orgasm, 12, 14, 16, 107, 118, 130, 146
- Overgaard, M., 277, 287–289, 315–318
- Pain
- acute, 45n.7, 237, 337, 343, 357, 361
  - abnormal, 5, 17, 106, 267
  - affect, 31, 40–41, 43, 51n.40, 51n.41, 130, 337, 339, 349–350, 360–361
  - affective aspect, 17, 29–30, 36, 48n.24, 135n.29, 373
  - affective dimension (aspect), 85, 106–108, 118, 130, 146–147, 167, 224, 256–257, 269n.17, 335–336, 339–340, 350, 355
  - affect theory of, 50n.38
  - animal models, 301, 358, 368–369, 377
  - in animals, 351, 269
  - asymbolia, 17, 32, 49n.35, 50n.39
  - attribution, 2–3, 22, 25, 130, 203
  - attribution sentences (analysis), 25, 130
  - behavior, 85, 369, 371
  - chronic, 3, 15, 31–32, 34, 38, 125, 133n.2, 193, 237, 300, 331, 336–337, 340, 343, 360–361
  - clinics, 133n.2, 302
  - control, 359, 50n.36
  - commonsense concept of, 1–2, 31, 76, 80, 92–93, 100, 125, 178, 227, 332
  - congenital insensitivity (indifference) to, 32, 193, 300
  - definition of ‘pain,’ 5, 12, 31, 44, 100, 237n.2, 317
  - as emotion, 219, 234, 236
  - epistemology of, 48n.23, 59, 258
  - first pain, 254, 308, 311
  - history, 49n.33, 219, 225, 229, 238, 241, 248, 301
  - human studies, 376
  - in infants, 60, 367, 371, 381
  - language, 221–222, 335
  - location, 3, 7–8, 20–22, 103–106, 125, 172, 317
  - referred, 3, 15, 21, 31, 44n.2, 100, 126, 133n.2, 138, 154, 159, 169–170, 174
  - research, 5, 30–41, 219, 232, 235–239, 248, 301, 308–309
  - science, 4, 30–31, 41, 43, 229, 231, 234–235, 239, 246–248, 249, 252, 293
  - second pain, 253–258, 269, 281n.1, 308, 311
  - sensory dimension (aspect), 31, 36, 106–107, 130, 146, 177, 335, 354, 359, 373
  - social aspects of, 373ff.
  - threshold, 50, 280, 317, 337. 357, 359–361
  - withdrawal, 221
- Pained, 152, 201–202, 204–206, 209, 218, 221
- Painfulness, 27–28, 116, 160–161, 165, 177–178, 181, 183–184, 187, 189, 227
- Paining, 213–214
- Paleospinothalamic tract (pSTT), 38–39
- PANIC, 131, 135
- Panksepp, J., 49, 367ff.
- Papineau, D., 48n.25, 268
- Parabrachial nucleus (PB), 38, 196
- Parallel processing (systems, pathways), 36, 40–41, 50n.35, 50n.38, 51n.41, 334, 337, 354, 356
- Pariaqueductal gray (PAG), 38, 196n.5, 374–375



- Peacocke, C., 48n.26, 67, 71n.14, 81
- Perception. *See* Perceptual; Perceptualism;  
Veridical perception
- Perceptual. *See also* Perceptualism  
account, 9, 11, 25, 44, 126  
achievement, 206  
appearance, 4  
attention, 78  
attribution, 207, 213, 217–218  
awareness, 77, 79–80, 97n.1, 147–148  
beliefs, 48  
consciousness, 204–205, 207, 214  
concept, 123–124, 208–213, 215  
content, 174n.4, 208  
experience, 6, 12, 14–15, 24–25, 27–29,  
44n.1, 46n.16, 70n.6, 82–84, 95, 99,  
127, 129, 143–145, 147–149, 164, 168,  
174n.4, 233, 245–246, 277, 299, 304,  
323  
intermediaries, 18 (*see also* sense data)  
knowledge, 216  
object, 1, 6, 15, 17–18, 45n.6, 79, 115,  
246  
relation, 19, 61, 123–124  
report (claim), 47, 124, 134  
representation, 78, 80, 88–89, 95, 208,  
212  
states, 23, 25–26, 49n.31, 299  
system, 80  
theories, 8–11, 14, 16–18, 23–24, 46n.13,  
70n.5, 81, 129–130, 133, 269n.17  
verb, 124  
view, 9–11, 14, 17, 21, 23, 26–27, 45n.9,  
45n.13
- Perceptualism, 129–130. *See also* Perceptual  
account, theories, view
- Peripheral nervous system, 36, 257, 269n.17,  
308
- Perkins, M., 45n.9, 47n.21, 147, 199ff.
- Phantom limb, 2–3, 21, 126, 159
- Phantom-limb pain, 15, 32, 76, 86, 92, 100,  
102, 111, 133n.2, 138–139, 169–170, 174,  
244
- Phenomenal. *See also* Phenomenological;  
Phenomenology  
character, 70n.3, 99, 110–12, 124, 137–145,  
164, 166, 189, 246, 268n.5  
consciousness, 267n.1  
content, 28–29, 111–112, 127–129, 131,  
160–161, 269n.17 (*see also* Content)  
feel, 116  
individuals, 6–7, 26 (*see also* Phenomenal,  
objects)  
method, 256–257  
mind, 244–245, 250, 267n.1  
objects, 6, 8, 26, 45n.9, 46n.16 (*see also*  
Phenomenal, individuals)  
properties, 48n.25, 138, 160, 182–183,  
195n.1, 326 (*see also* Phenomenal,  
qualities)  
qualities, 7–8, 25, 45n.9, 49n.29, 132, 145,  
148, 167, 247, 266, 338 (*see also*  
Phenomenal, properties)  
realm, 329  
structure, 265, 335, 329  
space, 7–8
- Phenomenological. *See also* Phenomenal;  
Phenomenology  
analysis, 260  
approach, 243ff., 253, 259, 264, 303  
character, 189  
content, 25  
facts, 76  
method, 285, 287, 295–297  
model, 278  
perspective, 77  
reduction, 262, 285, 287, 288n.1  
reflection, 285–286  
tradition, 285, 292, 295–296, 317  
training, 286
- Phenomenology, 6, 11, 24–29, 48n.26,  
51n.44, 77, 79, 96, 99, 108, 111–112,  
118n.12, 130, 132, 137–138, 149, 161, 181,  
257–262, 269n.17, 279, 283, 296–297, 309,  
312. *See also* Phenomenal;  
Phenomenological

- Physical  
 cause, 5, 323  
 condition, 2–3, 12, 15, 17, 22, 125–126, 301, 319  
 disorder, 126  
 disturbance, 22, 24, 30, 114, 126  
 objects, 7, 9, 20, 61, 64–65, 105, 148, 218n.3, 294  
 property (feature), 2, 131, 123–124, 133, 249–250, 257  
 reality, 6, 12, 47n.19, 125, 135n.5  
 state, 18  
 substance, 79  
 trauma, 3, 15–16, 177, 340, 343  
 Physicalism, 8, 45n.9, 251, 268n.5, 291, 296, 297n.1, 311. *See also* Materialism; Naturalism  
 Pitcher, G., 9–11, 18–19, 21–24, 45n.12, 46n.13, 47n.22, 70n.5, 73, 125, 129, 130, 135n.5  
 Placebo, 232–233, 373, 377  
 Plato, 225  
 Pleasure, 51n.44, 86, 147, 184, 186, 188, 191, 194, 224, 226, 228–230, 234, 343, 377  
 Ploner, M., 49n.35, 340  
 Positron emission tomography (PET), 287, 335, 339–340, 342, 354–355, 375  
 Posterior parietal cortex (PPC), 40, 41, 51n.41  
 Prefrontal cortex, 36, 40, 106, 302, 335, 339, 356, 374–375  
 Price, D. D., 41, 44nn.4–5, 49n.32, 49n.35, 50n.36, 51n.41, 94, 97n.2, 118n.5, 236–237, 243ff., 277–288, 291–292, 295–297, 299–301, 303, 307, 309–313, 315ff., 327, 333, 336, 338, 343, 347, 354–355, 359  
 Price, H. H., 45n.10  
 Private (privacy), 3, 19. *See also* Subjective; Subjectivity  
 Property. *See also* Quality  
 appearance, 138–141, 171–172  
 dualism, 247  
 extrinsic, 61  
 intrinsic, 6, 26, 61, 144, 178  
 nameless, 138  
 sensible (qualities, features), 1–2, 6, 9, 12–15, 19, 26, 45n.10, 46n.14, 180, 200, 209–210, 215–218  
 Propositional, 71n.12, 114  
 Proprioception, 79  
 Prosthetic pain systems, 194  
 Protopathic system, 181  
 Proust, M., 195  
 Psychofunctionalism, 43–44, 48n.24, 51n.44, 132  
 Psychophysics, 47n.17, 231, 238, 248, 258, 260, 282, 292, 294, 301–302, 317  
 Psychosemantics, 26, 48n.25, 131–132. *See also* Semantics  
 Public, 3, 6, 8, 12–13, 15, 18–19, 21, 23–24, 26, 46n.15, 48n.29, 299ff. *See also* Private  
 Putnam, H., 72, 113  
 Quale, 9, 51n.44, 135n.9, 177ff., 219, 224, 238. *See also* Qualia; Quality  
 Qualia, 25–27, 29, 43, 44, 48n.29, 49n.29, 130, 135n.9, 179–181, 183, 187, 195n.1, 219–220, 247, 249, 266, 280, 291, 294, 241. *See also* Quale; Quality  
 Quality. *See also* Quale; Qualia  
 affective, 16, 130, 132, 230, 243, 254, 257, 265, 373  
 aversive, 358  
 awareness of, 114, 128  
 determinate, 180–181, 183  
 of experience, 26, 230  
 experienced, 64, 111, 139, 169 (*see also* Quality, represented)  
 hurting, 28  
 intrinsic, 6, 26, 28, 43, 61, 144, 178, 189 (*see also* Property)  
 negative hedonic, 16  
 phenomenal (*see* Phenomenal; Phenomenological)