

Contents

List of Contributors ix

Preface xv

Introduction: Buddhism and Science—Breaking Down the Barriers

B. ALAN WALLACE 1

Part 1 Historical Context 31

Buddhism and Science: On the Nature of the Dialogue

JOSÉ IGNACIO CABEZÓN 35

Science As an Ally or a Rival Philosophy? Tibetan Buddhist Thinkers'

Engagement with Modern Science

THUPTEN JINPA 71

Part 2 Buddhism and the Cognitive Sciences 87

Understanding and Transforming the Mind

HIS HOLINESS THE XIV DALAI LAMA 91

The Concepts "Self," "Person," and "I" in Western Psychology and in Buddhism

DAVID GALIN 107

Common Ground, Common Cause: Buddhism and Science on the Afflictions of Identity

WILLIAM S. WALDRON 145

Imagining: Embodiment, Phenomenology, and Transformation

FRANCISCO J. VARELA AND NATALIE DEPAZ 195

Lucid Dreaming and the Yoga of the Dream State: A Psychophysiological Perspective

STEPHEN LABERGE 233

On the Relevance of a Contemplative Science

MATTHIEU RICARD 261

Part 3 Buddhism and the Physical Sciences 281

Emptiness and Quantum Theory

WILLIAM L. AMES 285

Time and Impermanence in Middle Way Buddhism and Modern Physics

VICTOR MANSFIELD 305

A Cure for Metaphysical Illusions: Kant, Quantum Mechanics, and Madhyamaka

MICHEL BITBOL 325

Emptiness and Relativity

DAVID RITZ FINKELSTEIN 365

Encounters Between Buddhist and Quantum Epistemologies

ANTON ZEILINGER 387

Conclusion: Life As a Laboratory

PIET HUT 399

Appendix: A History of the Mind and Life Institute 417

Index 423

Index

- Abhidharma, 77, 179*n*31, 283, 298–99, 302*n*1; and neuroscience, 54; and physics, 288–93; and Theravādin Abhidhamma, 174*n*11
- absolutes, 70, 73, 83, 127, 133, 329, 355*n*20; false absolutes, 363, 365–69; in quantum theory, 373, 376–80; *see also* essence; idols
- absolutism, 132, 327, 329, 350; absolutists, 25, 330; *see also* eternalism
- acceleration, 290, 375; nonacceleration, 369–70; accelerated detector or observer, 346, 370; *see also* momentum
- aesthetics, 22–24, 26; in Kantian literature, 331–332, 340, 342; aesthetic joy, 259
- afflictions; *see* mental afflictions
- agency, 123, 134–135, 162–64, 183*n*42, 213; agent, 114, 122–25, 132, 200, 288, 343–44; freely acting or rational agent, 106, 179–80*n*36, 180*n*36, 181*n*38
- aggregates, five psychophysical, 26, 101, 136, 147, 156, 174*n*11; synopses of, 92–93, 103*n*3; *see also* conditioned phenomena; feelings; form; perception; recognition
- aggression; *see* aversion
- agnosticism, 133; agnostics, 337
- ālayavijñāna; *see* substrate consciousness
- alienation, 56, 129, 137, 170, 285
- Alpbach Symposia on Consciousness, 417
- altruism, 56, 259, 262, 273, 278, 420; altruistic motives or actions, 269, 303, 339
- Ames, W. L., ix, 283–84, 285–302
- amplitude, 359*n*76, 380
- anātman; *see* no-self
- Anderson, B., 187–88*n*62
- androcentrism, 62*n*5
- anthropocentric position, 277, 279*n*15
- anthropological study, 37, 253; anthropologists, 157, 169, 183*n*42, 185*n*50, 185*n*52, 186*n*55, 400
- antimonies, 327–29, 331
- archeological study, 78
- Aristotle, 193, 199, 204, 212, 377; Aristotelian rationalists, 123; Aristotelian space and time, 367–69, 377, 379
- artificial intelligence, 268–69, 413, 418–19
- Āryadeva, 325
- Asaṅga, 218
- astronomy, 10; astronomers, 272, 342
- astrophysics, 3; astrophysicists, 406
- Atiśa, 220–21
- ātman, 104, 147, 381; *see also* self

- atomic theory, 271; atoms, 12, 15, 99, 265, 385, 392–96; of space or time, 376–77, 382; decay of, 306; hooked atoms, 273; atomic objects, 343; atomic level or scale, 292, 355*n*3; electrons, 13, 15, 274, 294–95, 301, 367; electron charge, 390; electrons and ions, 409; nucleus, 295; protons, 13; quarks, 13; *see also* particles
- attachment, 152, 173*n*8, 174*n*11, 271, 318; to self or identity, 147, 160–61, 168, 173*n*10, 189*n*67, 261–62; reduction of, 254; emotional attachments, 148, 165, 169, 185*n*52; *see also* mental afflictions
- attention, 12, 179*n*35, 198, 201, 213; psychological theories of, 6; selectivity or focus of, 129, 218, 403; training, refining, or stabilizing of, 6–7, 109, 135, 217–18, 337; bare attention, 193; spatial or peripheral attention, 198, 400, 408
- aversion, 154, 156, 160–61, 173*n*8, 174*n*11, 182*n*41; and attraction, 151, 303, 307–9; *see also* mental afflictions
- awakening, spiritual; *see* enlightenment, spiritual
- awareness, 109, 126, 194, 216, 237, 249, 271; and consciousness, 181*n*38; explicating awarenesses, 131, 133, 135–36; feature awareness, 131, 135; I-awareness, 123–24; limited or diffused awareness, 158, 169, 244; nonfeature awarenesses, 129–30; primordial awareness, 238, 247, 323–24; pure awareness, 251, 259, 264, 272; self-awareness, 111, 117–125, 157–58, 162, 183*n*43, 267, 271; sleeping awareness, 242; *see also under* experimentation
- Bacon, F., Sir, 40, 366, 368
- Bahaudin, N., 233
- Ball, N., 171*n*1
- Barash, D., 152, 184*n*45
- Barbour, I., 40–41, 65*n*36
- bardo* state, 252
- Barkow, J., 157–58, 164, 182*n*41
- Bateson, G., 169–70
- Becker, E., 165–67, 170, 187*n*60, 187*n*61, 188*n*63, 65
- behaviorists, 159–60, 263
- beliefs, 11, 38, 311, 274, 335; Buddhist, 44, 48, 55, 70, 94–95, 101–2, 233, 382; religious, 2–4, 18, 72, 81, 167, 188*n*62, 272; scientific, 3, 14, 17, 404, 411–12; religious believers, 24, 402; and relativism, 25–26; loss of, 339; in the self, 173*n*10, 179*n*35, 181*n*39; blind belief, 169
- Bell, J., 297
- Berger, B., 185*n*51, 186–87*n*57
- Berger, P., 162, 165, 167, 184*n*47, 185*n*51, 186–87*n*57
- Bernet, R., 210, 212
- Bertalanffy, L., 163–64
- Berthoz, A., 199
- Bible, 3, 24
- Big Bang, 275, 315–16, 320, 385, 396–97
- Big Crunch, 385, 396–97
- biological sciences, 143, 146, 168, 182*n*41; biology, 3, 17–18, 182*n*41, 410, 413; biologists, 18, 182*n*41, 183*n*42, 183*n*43, 268; sociobiology, 411; sociobiologists, 2; and Buddhism, 20, 77, 159, 173*n*7; biological life, 162; biological processes, 15; *see also* evolutionary biology; neurosciences
- Bisiach, E., 197
- Bitbol, M., ix, 323–24, 325–61, 363, 385
- black holes, 375, 377
- bodhicitta*; *see* spirit of awakening
- Bodhisattva, 223, 262, 298, 307, 320
- body, personal, 116, 124, 224–26, 276, 290; in Buddhist analysis, 49, 79, 106, 154–45, 172*n*7, 200; and brain, 195, 202, 262, 267; and mental events

- or mind, 56, 179n36, 193–94, 240, 286, 363; and person, 118; and self, 265; illusory or dream body, 235, 243–44, 245–47, 250; material bodies, 338, 346–47; bodily objects, 342; bodily pain, 222; bodily posture, 213, 217; imagined bodily displacement, 197
- Bogen, J. E., 110, 111, 113
- Bogzaran, F., 254
- Bohm, D., 56, 76, 319, 338, 348, 350, 379, 384; Bohm's hidden variable theory, 346, 352, 359n79
- Bohr, N., 293, 343–44, 370, 373, 381; Bohr's correspondence principle, 361m103, 372
- Boltzmann, L., 312–16, 319
- Boole, G., 357–58n57, 373; Boolean algebra, 344–45, 357–58n57
- Borges, J. L., 305, 310
- Born, M., 346; Born's correspondence rule, 353
- Bose, S., 345; *see also* Einstein, A.; Fermi, E.
- brain, 262, 265–70, 273, 393; Buddhist theories of, 20, 232; evolution or development of, 157, 161, 184n45, 200, 419; functions or states of, 219, 231, 259, 268; injuries of, 119, 124–25, 130; regions, structures, or circuitry of, 137, 162, 198, 201–2, 213; electrochemical events in, 214–15, 276, 413; and mental events or mind, 24, 38, 59, 125–26, 193–96, 240; and self, 16, 179–80n36; as machine-like, 15, 181n39; global patterns or processes, 12, 213; *see also* limbic system; neocortex; *and under* body; emotions
- brain sciences, 12, 15, 51, 57; brain scientists, 179n36, 181n39, 259; brain damage studies, 128; brain-imaging studies, 199, 203, 209, 224–5; global brain study, 196; split-brain research, 111–12, 125, 131, 180n36, 181n38; modular theory, 179–80n36
- Brooks, R. A., 268
- Brown, D. P., 53–54
- Bruno, G., 367
- Buddha fields, 235, 245
- Buddhist literature, 105, 109, 174m11, 218, 233–34, 383, 386; Highest Yoga or Dzogchen literature, 74, 245, 323
- Buddhist philosophy, 5–7, 20, 78, 97, 388–90; Buddhist philosophers, 218, 383; classical Buddhist thought, 72, 75; schools of, 92, 94–95, 283; writings on, 23, 396; and science, 317; *see also* Madhyamaka
- Buddhist relativity, 73, 365, 382; *see also* interdependence
- Buddhist scriptures, 4, 27, 255, 276, 288–89, 298, 336; studies of, 57, 60; in Pāli, 47, 48, 105, 172n4, 175m16; in Sanskrit, 105; *see also* self
- Buddhologists, 4–7, 23, 33, 69
- Cabezón, J. I., ix–x, 33, 35–68, 69, 419
- cakras, 232, 240, 242
- Camus, A., 145–46
- Candrakīrti, 323, 325, 357n49
- canon, Buddhist; *see* Buddhist scriptures
- Capra, F., 51, 64n33, 153, 326
- Carrithers, M., 166, 181n40, 183n42
- Carus, P., 46–47, 63m17
- Casey, E., 208, 213
- Cassirer, E., 337, 340, 350, 356n40
- Catholic Church, 43, 324, 335
- causality, 326–31, 340; in Buddhist theory, 174m11, 262, 287, 300–3; in evolutionary biology, 149, 153, 158, 182n41; multilevel causalities, 224; nonlinear, cyclic, or circular causality, 169, 178n28, 189n68, 215; causal efficacy, power, or influences, 8, 175m17, 175m19, 177n25, 193, 213;

- causality (*continued*)
 causal relationships, 106, 396; *see also under* karma
- cause, 128, 138*n*2, 172*n*7, 262, 286, 350;
 of dangers or illness, 58, 171; of
 quantum phenomena, 349; and
 conditions, 99–101, 275, 289, 292,
 299–301, 309; and effects, 7, 44, 155,
 266, 410; necessary and sufficient
 causes, 193; *see also under* mental
 afflictions; suffering
- causation, 181–82*n*40, 383; nonphysical
 causation, 14; upward causation,
 203, 212, 214, 224, 267; downward
 causation, 204, 212–5, 224–25, 267
- cells, 3, 12, 15, 175*n*18, 203, 319; single-
 cellular organisms, 151
- Center for Research on Mind-Body
 Interactions, 420
- chaos, 172*n*6, 349, 403
- Chekawa Y. D., Geshe, 220
- chemistry, 20, 270, 395; “Christian
 chemistry,” 5
- Choegyal, T. (Ngari Rinpoche), 417
- Chomsky, N., 182*n*41
- Christianity, 6, 25, 132, 400–1, 403–5,
 410; assumptions and terms of, 4,
 174*n*11; and science, 39, 41–42, 45–47,
 72; *see also under* chemistry;
 contemplative traditions;
 fundamentalism; rebirth; theology
- chronon, 376–77, 384; *see also*
 Finkelstein, D. R.
- Chukye S., 80
- Chuang-tzu, 145, 153
- Closure Principle, 14–17
- co-dependent arising, *see* dependent
 origination
- co-evolution, 161–62, 181*n*40, 183*n*42
- cognition, 193, 196–99, 221, 240, 267,
 356*n*38; structures or mechanisms
 of, 107–8, 156, 162; forms or states of,
 78, 169, 185*n*50; processes, acts, or
 changes of, 137, 157, 202–3, 213–14,
 340, 351; mistaken cognition, 94–96,
 200; valid cognition, 78, 89, 93, 96,
 100, 272; cognitive phenomena, 266,
 273; cognitive subject, 214–5
- cognitive sciences, 58, 118, 201, 181*n*38,
 181*n*39, 226; cognitive scientists, 57,
 89, 105, 183*n*43, 268; research of,
 37–38; and Buddhism, 54–55, 82,
 132–33, 143, 172*n*6, 231, 303;
 disciplinary fields related to, 111, 418;
 cognitive linguistics, 113–14, 131;
 cognitive neuropsychology, 105, 108;
 cognitive neuroscience, 134, 196,
 200–3, 206, 212, 223; cognitive
 psychology, 6, 111, 113, 126, 137, 138*n*3,
 419; *see also under* reciprocity
- Cohen, H., 337, 340, 351, 356*n*39,
 357*n*46
- Cole, K. C., 14
- Collins, S., 108–9, 133
- colonialism, 41, 43; the colonized
 “other,” 27
- communication, 131, 162, 365–66,
 417–18; telecommunication, 76
- communism, 24, 75, 80; Chinese
 communist invasion of Tibet, 271
- compassion, 56, 96, 137, 310, 382, 420;
 cultivation of, 170, 220, 278, 303,
 318–21; human capacity for, 15,
 174*n*10, 262, 268; as a mental state,
 42; universal compassion, 298;
 compassionate actions, 52, 189*n*67,
 306–7
- compatibility/identity, between
 Buddhism and science, 33, 43–48,
 50, 58, 69
- complementarity: between Buddhism
 and science, 33, 49–56, 58–61, 64*n*21,
 69, 410; of religion and science, 409;
 of Western and Eastern philosophy,
 340–41; in quantum theory, 352,
 357*n*53, 365, 372, 377, 380
- compositional factors, *see* conditioned
 phenomena

- compound, nonsemisimple, 363,
367–71, 376–79, 384
- concentration, meditative, 23, 42
- conceptual designation, 105–6, 193,
309, 323
- conditioned phenomena, 8, 101, 147,
153, 160, 163
- Confucianists, 400
- conflict/ambivalence, between
Buddhism and science, 41–43, 50,
58, 69, 410
- consciousness, 129, 186*n*55, 205, 259,
293; contents of, 126, 130, 207, 240,
249; continuity of after death, 26,
178*n*27, 237; structures, levels, or
modes of, 131, 139*n*9, 186*n*55, 224–26;
transference of, 235; in Buddhism,
89, 92–97, 103*n*3, 154, 173*n*9, 390; in
Buddhism and science, 8, 49, 77,
210, 262–78; and psychotherapy,
52–53; and self, 111, 114, 120, 162,
172*n*7; and Western science, 11–13,
20; clear light or clear conscious-
ness, 97, 264; deluded conscious-
ness, 333; dreaming consciousness,
96, 208, 211, 233, 236–38; “image-
free” consciousness, 94; self-
consciousness, 185*n*49; sensory
consciousnesses, 93, 96; time con-
sciousness, 211, 227*n*5; waking con-
sciousness, 233, 236, 324; *see also*
under matter; neurosciences;
psychology; substance
- consilience, 3, 11–12, 15
- contemplation, 130, 271, 382, 401,
407–8; *see also* meditation
- contemplative insight, 6, 218, 323–24,
408–9; contemplative insights, 8–9,
221, 385; *see also* meditative
quiescence
- contemplative traditions, 9, 20, 23, 336;
contemplatives, 7, 9, 23, 263, 265,
272–73, 275, 323; in Christianity, 271,
401; contemplative practice, 232;
contemplative inquiry, science, or
training, 7, 193, 259–60, 271–78,
417–18
- Cooper, R., 47, 64*n*21
- Copenhagen interpretation, 338,
343–44
- Copernicus, 372; Copernican
revolution, 332; Copernicus’s
heliocentric view, 324
- Cosmides, L., 182*n*41
- cosmogony, 149, 175*n*13; *see also under*
karma
- cosmology, 65*n*34, 318–20, 385–87,
390–91, 420; in Buddhism and
science, 57, 76–77, 79, 84*n*22;
religious cosmologies, 3, 18–19,
62*n*8; cosmic order, 166; galaxies,
396, 409; solar systems, 306, 315, 320;
stars, 15, 19, 150, 306, 315–16, 395–96,
409; missing mass problem, 396
- covalent bonding, 395
- creationism, 335
- Creator, divine, 6, 248, 393
- cultural relativism, 5, 20–21, 24–26,
184*n*43, 323
- culture, 252, 334, 400–1; transmission
or heritage, of, 162–67, 184*n*45;
cultural bias, 343; *see also under*
interdependence; morality; natural
world
- Dalai Lama, H. H. the XIII, 41
- Dalai Lama, H. H. the XIV, x,
xvii–xviii, 64*n*32, 65*n*34, 89, 91–103,
323, 385, 387–97, 417–20; statements
by, 26, 63*n*16, 382; and science, 42,
56–59, 65*n*40, 75–79, 81–82, 236, 245,
255, 382
- Darwin, C., 176*n*21, 383; Darwinism,
176*n*20, 183*n*42; Social Darwinism,
175*n*18; Darwinian evolution, 410
- Davidson, R., 420
- Davies, P. C. W., 313
- Dawkins, R., 2–3, 15

- death, 174n11, 186n54, 272, 287, 318;
experiences of or following, 23–24,
26, 252; *see also* dying; and under
ego
- De Becker, R., 235
- deCharms, C., 54, 65n36
- Decety, J., 199
- De Duve, C., 269
- DeGracia, D. J., 243, 246, 252
- Deikman, A. J., 126, 131, 135, 139n9
- democracy, 82, 168
- Democritus, 273
- Dennett, D., 201
- dependence, 161, 165–67, 274, 300, 323,
333; relations of, 310, 349–50; *see also*
interdependence
- dependent origination, 133, 146, 292,
299–301, 309–10, 330; synopsis of,
287–88; of species, 173n7; and
affinitive theories, 172n6; and
identity, 79; dependently arising
events, 266
- Depraz, N., x, 193–94, 195–230, 363
- Descartes, R., 40, 110, 209, 303, 317, 370,
375; Cartesian dualism, 12, 65n37,
231–2, 273, 275, 317; Cartesian
metaphysics, philosophy, and
rationalism, 381
- Destouches, J.-L., 353
- Destouches-Février, P., 349, 353
- determinism, 177n26, 182n41, 183n42;
determinists, 159; of classical
physics, 291, 293, 295–96, 359n77;
and indeterminism, 325, 348–50; *see*
also evolution
- dhamma*, *see* *dharma*
- dharma*, 97–99, 178n28, 288, 302–3
- dharma, 177n23, 292–93, 298–302; *see*
also under impermanence
- Dharmakīrti, 72, 355n5
- Dharmapala, A., 45–46, 63m17
- Dirac, P. A. M., 345, 353; *see also* under
Fermi
- dispositions, *see* latent dispositions
- divine intervention, 48
- divine will, 186n55
- doctrines, 298, 336, 399; Buddhist, 23,
25–26, 235, 255, 288; Christian, 25;
philosophical, 336, 339; religious,
21–22, 354n1; evolution of, 333–34;
see also under Madhyamaka
- dogma, 7, 13, 48, 173n8, 272; in
Buddhism, 46, 74, 332; in
postmodernism, 20–25; in religion,
2, 335–36, 354, 403; in science, 1,
10–11, 17, 47, 324
- Domhoff, W., 253
- Doniger, W., 252
- Douglas, M., 185n52
- dreaming, 56, 195, 224, 240, 324;
dreams, 204, 221, 180n36, 275;
content or imagery of, 13, 236–37,
244–46, 248, 253; experiences of,
231–32, 249–50; visionary travel
during, 245; daydreaming, 206, 210,
218, 224; dream spinning, 243;
dream yoga, 231–55; *see also* under
body; consciousness;
experimentation; illusions;
meditative quiescence; perception
- Duncan, H. D., 168
- Durkheim, E., 165
- dualisms, 12–13, 207–8, 332–33, 339–40;
terms or views of, 182n41, 213, 344;
see also under Descartes, R.
- Du Pre, G., 48
- dying, 56–57, 96, 420
- Dzogchen, 48, 323–24, 402, 404–5; *see*
also under Buddhist literature
- rDzogs chen, *see* Dzogchen
- Eck, D. L., 27, 64n24
- Eckhart, M., 405
- Eckhardt, W., 171n1
- ecology, 137, 320
- economy, in science, 10, 345–46
- EEG, 38, 421
- Einstein, A., 293, 372, 376, 379, 383;

- statements by, 276; papers by, 290, 343; Einstein energy-mass equation, 73, 381; Einstein's theory of gravity, 373; Einstein's theories of relativity, 303, 317, 326, 365–66, 369; Einsteinian space-time, 367–68, 382, 384; Bose-Einstein statistics, 345
- ego, 221, 263, 265, 308, 318–19; ego-core, 250; ego-death process, 252; ego-illusion, 179*n*34; ego-centric activities or views, 148, 261–62; *see also* identity; person; self
- Elias, N., 187*n*58
- electricity, 291
- electromagnetism, 291, 392; *see also* under photons
- emotions, 100–1, 130, 173*n*8, 180*n*36, 201, 217; development or training of, 223, 225; processes or reactions of, 137, 157; scientific research of, 421; and brain, 16, 240; and memory, 215, 222; and self, 158, 169, 183*n*43, 265–66; afflictive, negative, or destructive emotions, 97–98, 174*n*11, 238, 249, 271, 420; pleasant emotions, 402; emotional capacities, 156; emotional satisfaction, 19; evasive emotional set, 213; imagined emotional meaning, 210; *see also* feelings; and under health
- empathy, 21, 152, 223, 250–51; *see also* altruism
- empirical science, 1, 10–20, 26–27, 64*n*25, 80; domain and validity of, 2, 328–33, 340, 355*n*20; methods and testing of, 3, 22, 206, 239; 303; proof, findings, and evidence of, 19, 74, 102, 209, 327; of neurology, 74; of physics, 373–74; empirical arguments, 358*n*64; empirical equivalence, 345, 358*n*66; *see also* experimentation
- empiricism, 7–8, 12, 18, 182*n*41, 327, 336–37; empiricists, 337; and Buddhism, 46–47, 70, 83, 133; *see also* empirical science; and under Hume, D.
- emptiness, 237, 247, 266, 330, 350; of phenomenal appearances, 222, 323, 334, 339; and science, 60, 283–302, 307–11, 317–18; emptying of concepts, 383; *see also* under Prāsaṅgika Madhyamaka
- energy, 284, 291, 294, 297, 315, 403; conservation of, 14, 273, 276; distribution of, 390; *see also* under Einstein, A.; mass
- Engle, R. A., xviii, 387–88, 417–18
- Engler, J., 53–54
- Enlightenment, Era, 36, 46, 188*n*62
- enlightenment, spiritual, 17, 19, 23, 307, 339, 386; aspiration for, 234, 236, 249, 253–54, 298, 318; training toward, 137, 217; as ultimate nature of consciousness, 265; enlightened beings, 24
- entiticity, 120, 125; entification, 121, 127–28, 136; entification and reification, 132; *see also* essence
- entropy, 291, 313–16
- epidemiologists, 173*n*10
- epistemology, 330, 332–33, 335, 402–9; epistemologists, 72; in Buddhism, 72, 79–82, 356*n*23, 388–97; in classical physics, 370–71; in quantum physics, 387–97; dualistic epistemologies, 338–40; Episteme or epistemic grounds, 348–51; epistemic goals of research, 9
- equanimity, 174–75*n*11, 307
- equilibrium, 313
- essence, 146–148, 303, 309, 370, 383–84; reification of, 127–28; relativizing of, 189*n*68; Western folk theory of, 115–16, 138*n*2; of Buddhism, 4; of a species, 160; and self, 108, 131, 288; *see also* intrinsic existence

- essentialism, 176n20, 182n41
- eternalism, 174n11, 360n94
- ethics, 22–23, 109, 125, 332, 336; *see also* *under* experimentation
- ethnicities, 169; ethnic conflict, 145, 167; ethnocentrism, 4
- ethological theory, 183n42; ethos, 9, 57
- Eurocentrism, 62n5
- Evans-Wentz, W. Y., 236–7, 241–2, 245, 247–8
- Everett, H.: Everett's original "relative state," 352
- evil, 143–48, 159, 187n59, 187n61, 188n65; human construction of, 164–69; social theory of, 160–61; modern evils, 319; good and evil, 170
- evolution, 35–36, 151–53, 316, 381, 384; of cultures, 15; of early hominids, 162; of intelligence, 267, 275; of the universe, 57; adaptations or changes of, 106, 131, 149; stages, processes, or development of, 134, 154, 157–58, 160–64, 175n17, 176n21, 268; principles, laws, or theories of, 16, 18, 176n20, 183n42; and Buddhism, 47, 64n21, 108, 172n7, 174n10; and physics, 295–96, 353; and self-organization theory, 172n6; relativistic evolution, 369–70, 374–77; predestination, 184n47; *see also* coevolution; natural selection; *and under* Darwin, C.; experience; identity; interdependence; language; logic; mind
- evolutionary biology, 149, 151, 179n33, 182n41; evolutionary biologists, 152, 158, 183n43; and Buddhism, 143, 153, 156–61, 175n19
- evolutionary psychology, 175n18, 411
- evolutionism, 44, 46
- experience, 184n48, 217, 223–26, 331, 412–13; of childhood or the past, 153, 249–52; of self, 109–10, 124; bounds of, 328; continuity of, 288–89; empirical proof of, 48–49, 98–99, 101; manifestation of, 91, 154–55; organization of, 184n46; scientific exclusion of, 8–20, 231, 283, 400; in Buddhism, 6–10, 23, 78, 80, 303, 381, 402–4; in Buddhism and science, 20, 54–55, 58–60, 83, 234, 259, 382; and evolution, 151–153, 176n20; and imagination, 193, 197, 203–8, 211; and mental states, 214; cognitive or emotional experience, 155, 157–58, 246; perceptual and motor experiences, 116; religious or mystical experience, 19, 21, 51, 272; *see also under* death; dreaming; inner life; interdependence
- experienced world, 162, 193, 324, 385
- experimentation, 2, 24, 201, 259, 338; experimenters, 112, 352, 366, 378; experiments, 10, 27, 74, 238, 290–91, 297–98; of lucid dreaming, 234, 238, 243, 248; of quantum theories, 301, 345, 368–72, 378–85, 388–89, 397; of self-awareness, 119, 201; ethics of, 37–39, 55; settings of, 37, 181n38, 294, 346; and Buddhism, 77, 134; double split experiment, 388; experimental activity or approach, 284, 354, 402
- facts, 17, 36, 74, 77, 274; power or value of, 3, 11; as conventional, 300; immaterial facts, 15; factual relevance, 331
- faith, 64n24, 89, 96, 272, 382; the faithful, 6; cultivation of, 101; in postmodernism, 22; in science, 9, 12, 14; and miracles, 46; blind faith, 402–4
- Faulkner, W., 153
- feelings, 92–93, 103n3, 173n9, 251, 164; of hatred, 262; of pleasure and pain, 154–55; of semantic meaning, 130; and person, 118; and self, 286; bodily feelings, 177n24, 218

- Felder, K., 255
 Fenner, P., 64n22, 64n23, 65n40
 Fermi, E.: Fermi-Dirac statistics, 345
 Fetzer Institute, xviii, 61n1, 255, 420
 Feyerabend, P., 54
 Feynman, R., 14; Feynman path-integral formalism, 359n69
 Fields, R., 45-46
 Fine, A., 342; Fine's Natural Ontological Attitude (NOA), 342, 346
 Finkelstein, D. R., x-xi, 363-64, 365-84, 385, 387
 five lower fetters, 176n22, 178-79n31
 forces, 113, 290, 292, 295; electrostatic, 409; gravitational, 409; nuclear, 370
 form, 93, 103n3, 177n24, 275-76, 333; nature of, 248; bodily forms, 289, 328-29; consecutive forms, 330; name-and-form, 178n27
 Foucault, M., 21
 Fourier, J. B., 378
 Four Noble Truths, 4, 23, 89, 173n8; descriptions of, 91-92, 160, 173n10; the first, 286, 318; the second, 189n67, 307
 frames of reference, 14, 124, 283, 303, 372, 380; *see also* measurement
 Francis, Saint, 405
 freedom, 8, 26, 207, 234, 269; of choice, 37; from bias, 89; from misguided actions, 156
 free will, 24, 266; in Kantian philosophy, 331, 340, 356n30; *see also* under illusions
 Freud, S., 111, 210, 248
 friction, 290
 functional magnetic resonance (fMRI), 196, 421
 fundamentalism, in religion and science, 18, 22; fundamentalists, 188n62; Christian fundamentalism, 18
 Galileo, 13, 23, 40, 276, 290, 335; Galilean relativity, 367-68; Galilean space/time, 367-69, 376, 371
 Galin, D., xi, 105-6, 107-42, 143
 Gallagher, S., 128
 Gampopa, 220
 Garfield, J. L., 128, 133, 253, 323, 331, 333, 383
 dGe 'dun chos 'phel. *See* Gendün C.
 Geertz, C., 183-84n43, 184n46
 Gelugpa, 57, 81, 217, 220
 dGe lugs pa, *see* Gelugpa
 Gendün C., 42, 63n11, 69, 71-77, 79-81
 genes, 16-17, 175n19, 176n21, 185n50; and environment, 182n41; genotype, 176n20; genetic code or programming, 25, 175n17, 183n42, 320; genetic processes, 224
 general systems theory, 163, 172n6
 geology, 10
 Giddens, A., 180n37
 Gilkey, L., 2, 9-10, 17
 God, 14, 17, 24, 168, 335, 393; trinitarian God, 62n8; in Buddhism, 46; existence of, 3; grace of, 405; will of, 39; God's eye view, 364
 Goldstein, K., 111
 Goleman, D., 52, 420
 Gómez, L., 5-6
 Gould, S. J., 2-3, 9, 17
 gravity, 277, 370, 396, 409; gravitational constant, 13; gravitational theory, 377, 392; quantum gravity, 378-79; supergravity, 378; *see also* under Einstein, A.
 Greenburg, A., 382
 Greenstein, G., 387
 Griffiths, P. J., 7
 Guenther, H. V., 48, 65n40
 Gyatrul, Rinpoche, 236-37, 244-45
 Gyatso, J. S., 236, 245-46
 habitual tendencies, *see* latent dispositions

- hallucinations, 19, 197, 208–10
- Hamilton, W. R.: Hamilton-Jacobi equation, 372
- happiness, 25, 259, 277–78, 286; causes of, 8, 101, 262; pursuit of, 16–17, 261
- Harré, R., 347
- Harthong, J., 348–49
- Harvey, V., 3, 5
- Hawking, S., 63*n*13
- Hayes, R. P., 63*n*14
- Hayward, J. W., 55–56
- health, 98, 124; and emotions, 56, 419
- heat, 100, 291, 299–300, 315; *see also* temperature
- Heisenberg, W., 263, 274, 293, 295, 326, 343, 349; Heisenberg's operation without object, 372; Heisenberg's "purely algebraic method," 384
- Hermann, G., 349
- heuristics, 11, 48, 123, 127, 131–33; heuristic approximations, 135; heuristic devices, guides, or principles, 189*n*68, 342, 368, 382
- Hilbert, D.: Hilbert space structure, 352–53
- Hilgard, E. R., 111
- Hinduism, 19, 51, 242, 286, 381, 400; Indian Brahmins, 72; Hindu philosophers, 384; Advaita Vedānta, 404; Vedic thought, 134
- Hintikka, J., 337
- history of science, 8, 12, 33, 39–41, 338, 363, 415
- Hitler, A., 187*n*59
- Hopkins, J., 108
- Horkhang S. P., 75, 83*n*1
- hormone surges, 3
- Houshmand, Z., 420
- Hsuan Hua, Ven., 63*n*14
- Hui Neng, 134
- humanities, 20–22, 36
- human nature, 8, 17, 134, 153, 159–60, 420
- Human Potential Movement, 253
- Hume, D., empiricist tradition of, 204
- Hundert, E., 184*n*48, 185*n*49
- Husserl, E., 204–12, 223, 227*n*3, 348
- Hut, P., xi, xviii, 323, 382, 387, 399–415
- hypnosis, 119, 124, 135, 250
- idealism, 273, 327; idealists, 267, 277, 328
- identity, 16, 179*n*34, 189*n*68, 223, 265; and Buddhism, 79, 106, 143–71, 185*n*52, 188–89*n*67; and evolution, 156–70, 181*n*40, 184*n*44, 186*n*53; cultural, ethnic, or national identities, 166–68; independent or intrinsic identity, 283, 285, 300; identity crisis, 185*n*51; *see also under* attachment; impermanence; philosophy
- ideologies, 5, 20, 40–41, 165; ideological warfare, 24, 168
- idols, 363, 366–77, 380, 383; idolatry, 170; idoloclasy, 370
- ignorance, 170, 263, 278, 287, 390; abandonment of, 177*n*23, 178*n*29; mental affliction of, 148, 151, 154–55, 160, 173*n*8; as cause for suffering, 26, 169; and science, 18, 45, 348; and spiritual progress, 404; fundamental or innate ignorance, 98, 157–58, 216
- illusions, 24, 170, 221; of dreams, 246–47; of free will, 16, 269; of objectivity, 143, 350, 374; of permanence, 289, 300; of subjectivity, 11, 231; and self, 158–59, 179*n*35, 179–80*n*36; visual illusions, 32, 208–10; intersubjective illusion, 232; metaphysical illusions, 325–54; illusion-like *samādhi*, 236
- imagination, 102, 119, 193–226, 245–46, 265; objects of, 13, 166; of the public, 20; *see also under* language; memory; mental phenomena; perception; Sartre, J.-P.
- impermanence, 99–100, 147, 185*n*51,

- 305–21, 333–34; of dharmas, 286–89;
of identity, 164; misconstrued as
permanent, 170, 171n4; radical
impermanence, 168; impermanent
nature of things, 73; impermanent
world, 165, 323
- independence, 164, 274–76, 299, 308–13,
317–20; independent entities,
165–66, 169, 173n10, 283–84; *see also*
intrinsic existence
- inertia, 14, 391
- inherent existence; *see* intrinsic
existence
- inner life, 114, 126, 128, 131, 136;
experiences of, 2, 10, 17, 108;
phenomenological structure of,
117
- Inönü, E., 366–68
- insight, *see* contemplative insight
- Institute of Noetic Sciences, 255
- instrumentalism, 26, 55, 324, 335
- interdependence, 127, 262, 277, 304,
309–10, 318–19; of culture and
biology, 162; of evolution and
experience, 149–153, 183n42; of
identity or mental afflictions,
159–70, 177n25, 182n41; of self, 108,
130; of subject and object, 271, 330;
see also dependent origination
- International Symposium on
Epistemological Questions in
Quantum Physics and Eastern
Contemplative Sciences, 385, 388–89
- intrinsic existence, 283, 299–301, 308–9,
329–30, 350, 356n23
- introspection, 109, 218, 231, 263, 270;
introspective methodologies, 303
- Islam, 335, 400; Muslim mula, 401; Sufi
fana, 19
- Jacob, F., 269
- Jacobi, K., *see* Hamilton, W. R.
- Jackson, R. R., 6, 22–24
- Jaki, S., 39–40, 62nn4, 5
- Jalandhara, 235
- James, W., 6, 110, 111, 129, 204, 209,
227n3, 263
- Janet, P., 111
- Jayatilleke, K.N., 46–48
- Jinpa, T., xi–xii, xviii, 69–70, 71–85, 382,
385, 387–97, 419
- Johansson, R., 178n26, 179n34
- Johnson, M., 113, 118, 123, 126
- Judaism, 335, 400
- Judeo-Christian tradition, 4, 17
- Jung, C., 111
- Kadampa, 220
- Kagyü, 217, 220–21
- Kant, I., 24, 46, 185n49, 212, 227n3,
323–54; neo-Kantian philosophy,
323, 325, 340–41, 350–51; neo-
Kantian philosophers, 336, 350;
Kantian relativity, 329–30, 341, 352,
360n94; Kant's pure reason, 329, 332,
340, 342, 349, 353; *see also* Marburg
school of neo-Kantian philosophy;
and under free will; self
- karma, 26, 134, 143, 147, 178n28;
causality of, 177n26, 155; law(s) of,
44, 46, 385, 390–92; and cosmogony,
175n12; and mental afflictions, 92,
151; and rebirth, 48, 109, 288;
collective karma, 267; in contrast
with theistic grace, 64n22; *see also*
causation
- Kasparov, G., 268
- Kellner, H., 185n51, 186–87n57
- Kelvin, Baron (William Thompson),
375
- Kepler, J., 367
- Kihlstrom, J. F., 111
- kinematics, 379–80
- King, R., 4–5
- Kira Institute, 415
- kleśas, *see* mental afflictions
- Kontrul, J., 220
- Kosslyn, S., 199

- Krishnacharya, 235
 Kuhn, T. S., 54
- LaBerge, S., xii, 231–32, 233–58
 Lakoff, G., 113, 118, 123, 126
 Lamrimpa, Gen, 193
 language, 27, 129–30, 357n48, 404, 407;
 limitations of, 381; and evolution,
 157, 163–64, 186n55; and
 imagination, 193, 196, 198–99, 224,
 226; and self, 117, 138n3, 164;
 symbolic language, 15, 17–18;
 linguistic conventions, 308;
 linguistic differences, 382;
 phonemes, 130; terminologies, 5,
 289, 338, 366, 370–72, 403
 Laplace, P.-S., 383
 latent dispositions, 153–58, 176n22,
 178n29, 179n32, 217; arising of,
 176–77n23, 177n25, 178n27; *see also*
 five lower fetters
- Latour, B., 225
 Laudan, L., 358n64
 Lawapa, 235
 Law of the Excluded Middle, 95, 382
 laws of nature, 276, 303, 335, 356n30,
 379, 391–92; as absolute or ultimate,
 331, 348–49, 379, 383; and karmic
 law, 44, 385; and quantum
 dynamical law, 366
 Leibniz, G. W., 380; Leibnizian
 principle of sufficient reason, 349
 Lentz Peace Research Institute, 171n2
 Lewin, K., 111
 liberation, 4, 92–93, 178n26, 178n29,
 288–89, 378; path or means to, 293,
 301, 302n11; problem of, 170; two
 obstacles to, 171
 Lie, S.: Lie algebras, 371
 life sciences, 259, 420
 light, 100, 242, 271, 276–77, 291; speed
 of, 297, 302n6, 311–12, 321n2, 368, 376,
 379; on the quantum level, 306, 365,
 378–80, 388, 394–95
 limbic system, 157, 213, 215
 linguistics, 72, 418; linguistic research,
 126; *see also under* cognitive sciences
 Livingston, R., 419
 logic, 18, 113, 159, 269; in Buddhism, 27,
 79–82, 95, 331, 388; Buddhist
 logicians, 273, 373; in physics,
 343–44, 349, 357–58n57, 373–75,
 381–82; and evolution, 182n41;
 logical distinctions, 163; logical
 fallacies, 255, 411; *see also* reasoning
 Luckmann, T., 184n47, 186n55
 lucid dreaming, 231–55; wake-initiated
 lucid dreams (WILD), 239, 254
 Lum, D. D., 46
 Luzzatti, C., 197
- Mach, E., 369, 384
 Madhyamaka, 48, 65n37, 303–54, 313,
 382–83; Mādhyamikas, 392–93;
 doctrines or theories of, 60, 73, 79,
 132, 193, 283–84; history of, 298–301;
 view of, xviii, 209, 227n4, 231–32,
 364; Madhyamaka school, 55, 64n23,
 94, 135, 302n8
 magnetism, 291
 Mahāyāna, 60, 173–74n10, 216, 285, 348,
 354; central goal of, 323; history of,
 298
 Malcolm, N., 233
 Mangan, B., 129–30
 Mansfield, V., xii, 51–52, 55, 65n37,
 303–4, 305–21, 323
 Mao, T.-T., 187n59
 Marcel, A. J., 128
 Marburg school of neo-Kantian
 philosophy, 340, 356n39, 356n40,
 357n46; *see also* Cassirer, E.; Cohen,
 H.; Natorp, P.
 Margenau, H., 376
 Markus, H., 111
 mass, 150, 274, 290, 303, 379; of the
 universe, 14, 315–16, 391, 396–97;
 mass-energy, 275; rest mass, 301,

- 397; *see also under* cosmology;
Einstein, A.
- materialism, 38, 63*n*16, 172*n*7, 272–73,
277; materialists, 11, 14, 26, 269, 347,
395; materiologists, 14; scientific
materialism, 1, 10–20, 23–25, 231–32,
323–24; mechanistic materialism, 43;
materialist theories of mind, 65*n*36,
79–80, 82, 85*n*34
- mathematics, 41, 273, 331, 402, 407, 409;
principles or laws of, 9, 13–14; in
physics, 290–95, 313, 370–71, 377–82;
linear algebras, 371; orthogonality,
375; quantum algebra, 345, 384;
differential calculus, 351, 376, 403;
geometry, 342; geometric law, 366,
378–80; *see also under* Boole, G.;
Lie, S.; quantum mechanics
- matter, 290–92, 302*n*3, 316, 329, 332–33;
Buddhist views of, 35, 73, 302*n*1, 348,
396; and Buddhism, 49–50, 56–60;
and mental phenomena, 283–84; and
mind or consciousness, 12–13, 79, 163,
223–24, 231–32, 259, 266–75, 302*n*1;
and quantum theory, 297, 363, 366,
369, 375–84; and science, 13–14, 412
- Maxwell, J. C., 282, 291
- May, J., 323, 327, 330, 332
- Mead, G. H., 111
- measurement, 9, 14, 283–84, 291, 395;
technologies of, 240, 374; of mental
phenomena, 10, 276; and quantum
theory, 293–97, 301, 343, 352, 365–66;
see also MKS system of units;
mesoscopic scale
- medicine, 25, 57–58, 269, 401, 413;
medical researchers, 64*n*24; medical
terms, 173*n*10
- meditation, 5–7, 37–38, 53, 59, 247, 266;
meditators, 401, 418; psychology of,
289; in early Buddhism, 193;
training in, 130, 134–35, 403, 407;
scientific research into, 57, 65*n*35, 78,
139*n*9; neuroscientific research into,
42, 418–20; as mind training, 23, 109,
137, 220–23, 236; as a scientific
method, 48, 101, 381
- meditative quiescence, 6, 124, 135–37,
217–21, 227*n*6; and daydreaming, 210
- memory, 91, 121, 193, 195–205, 264–65;
and imagination, 211–16, 223–24; *see
also under* emotions
- mental activity, 16, 135, 173*n*9, 264, 270;
mental events, 12, 193, 224, 231, 265,
267; mental and physical events,
286, 288; mental imaging, 215–26;
mental life, 123, 131–32, 134, 201–3;
mental processes, 58, 99, 101–2, 109,
259; mental and sensory processes,
177*n*24; mental scanning, 198
- mental afflictions, 143–71, 178*n*28,
265–66, 323; Buddhist taxonomies
of, 149–51, 170, 171*n*2, 174*n*11, 179*n*31;
causes of, 106; effects of, 26, 175*n*12,
176–77*n*23; and happiness, 259; *see
also under* ignorance; karma
- mental faculties, 102; mental capacities
or powers, 152, 199, 212, 224, 247–48;
mental development, 16, 51, 151, 158,
163, 216; *see also under* mind
- mental phenomena, 8, 19, 100–1, 275,
288–89; mental imagery and
representations, 14, 118, 195–209, 219,
224, 264; mental constructions, 73,
231, 236; *see also under* measurement
- mental states, 213, 218, 231, 173*n*9, 244,
247; wholesome and unwholesome,
89, 93, 95–100; scientific study of, 38,
49, 64*n*25; *see also under* experience
- Merleau-Ponty, M., 204, 206, 210
- mesoscopic scale, 326, 355*n*3
- Merzenich, M., 421
- metaphor, 54, 62*n*4, 65*n*36, 121–22, 408;
and dialogical models, 58–60,
64*n*28; and postmodernism, 23, 26;
and self, 108, 113–18; action
metaphors, 134; metaphoric
systems, 105; *see also under* person

- metaphysics, 120, 276, 337, 348, 350; in Buddhism, 45, 72, 81, 327, 330; in science, 1, 11–15, 19, 55, 80, 335; and physics, 60, 392; and postmodernism, 21–22; relativistic metaphysics, 234; *see also under* realism
- Meyerson, E., 326
- Middle Way school of Buddhism; *see* Madhyamaka; Prāsaṅgika
- Madhyamaka
- mind, 3, 26, 261–64, 217, 270–72; mind scientists, 181*n*39; foci of during visualizations, 241–43; four inverted views of, 173*n*4; nonthought condition of, 247; powers of, 246; stabilizing or purifying of, 124, 135, 236; transformation of, 89–103, 109, 259, 332; phenomenological approach to, 204; in Buddhism, 5–8, 65*n*36, 70–72, 78–83, 92–97, 288; in Buddhism and science, 10–13, 19, 48–60, 64*n*24, 226; and evolution, 17–18, 152, 163–64, 184*n*45, 200; and self, 110; and world, 267, 309, 409; ‘mind-made’ beings, 150; *see also under* materialism; matter; meditation; body; brain; philosophy
- Mind and Life Institute, xvii, xviii, 84*n*19, 387–88; history of, 417–21; conferences of, 56, 64–65*n*34, 76, 79, 385, 419–21
- mind stream, 172*n*7, 175*n*19, 178*n*28, 402
- mindfulness, 210, 216–18, 222, 237, 243
- Minkowski, A. D., 368
- Minsky, M., 181*n*39
- Mitchell, S., 179*n*35
- MKS system of units, 376–77
- modes of action, in quantum theory, 363, 372–73, 377
- Mol, H., 184*n*44, 185*n*52, 185–86*n*53
- molecules, 12, 122, 395; analytic level of, 293
- momentum, 294–96, 345, 372, 376–78, 403; of scientific progress, 413
- monasteries, 24, 271; monastic colleges, 76, 79, 81–82; monastic communities, 41, 82, 109, 135; monks, 73, 133, 235, 253, 382, 414; Tibetan monks, 37–38, 42; monastic discipline, 298
- monism, 12–13
- morality, 182*n*41, 187*n*59, 304, 319, 175–76*n*11; morals, 3–4, 145, 336; and culture, 169, 188*n*66; moral pain, 222; moral transformation, 223; *see also under* philosophy
- Morley, J. M., 210
- motion, 293, 306, 314; law of, 44, 199, 290–91; resistance of, 391; and quantum mechanics, 365–68; bodily movement, 105, 123, 127, 193, 196, 276; forced movement, 115; motion sickness, 124; motor actions and consequences, 201, 224; absolute rest, 367–69
- Müller, M., 36
- Murti, T. R. V., 327–29, 331–33
- Mussolini, B., 187*n*59
- mysticism, 19, 51, 63*n*13, 401, 406; mystics, 405; mystical union, 247–48
- mystification, 166, 186*n*55, 188*n*66
- mythology, 338–39, 410; myths, 3–4, 19, 336
- Nāgārjuna, 128, 137, 317, 323, 350; and Madhyamaka, 298–300, 340–41; Nāgārjuna’s “no-view” approach, 133, 327–32
- Namgyal, T., 217
- Naropa, 235
- nationalism, 167, 186*n*57, 187*n*59, 187*n*62
- nation-states, 166–69, 187*n*57, 319
- Natorp, P., 340, 350–51, 357*n*46
- naturalism, 8, 89; Naturalist Fallacy, 160

- natural philosophy, 27, 325
 natural sciences, 10, 18, 20–21, 36, 277
 natural world, 1, 5, 8, 11, 231; as
 opposed to culture, 162
 natural selection, 15, 18, 152, 158,
 176*n*20, 176*n*21; and human
 psychology, 177*n*25
 nature religion, 17–20
 nature v. nurture debate, 160
 Needham, J., 62*n*6
 neocortex, 157, 184*n*46
 nervous system, 213, 232, 239–40, 273;
 evolution of, 158, 184*n*46, 267–69
 neurons, 12, 196, 199, 224–25, 268,
 269–70; neural activities or states,
 172*n*7, 200–3, 208, 211–13, 239–40,
 273; neural correlates of mental
 processes, 193, 259; neural
 networks or architecture, 3, 16,
 181*n*38; neural plasticity, 421;
 neurotransmitters, 3
 neurosciences, 201, 211, 409–10, 413,
 418–19; neuroscientists, 57, 91, 193,
 200, 417; neurology, 74, 111–12, 117,
 134; neurologists, 276; behavioral
 neurology, 111; neurobiology, 79, 82,
 215, 267–69, 419; neurobiologists,
 270; neurophenomenological
 analysis and research, 225–26;
 neurophysiology, 78, 134;
 neurophysiologists, 180*n*36;
 neuropsychology, 78, 105, 111, 131,
 239; and Buddhism, 54, 195–96; and
 consciousness, 248; *see also*
 cognitive sciences; *and under*
 meditation
 Newton, I., Sir, 40, 290, 369, 382, 384;
 Newton's Laws, 291, 313, 368;
 Newton's constant, 370, 373;
 Newtonian mechanics, 291, 351–52,
 360*n*94; Newtonian philosophy, 331;
 Newtonian physics, 369
 Nichols, C., 183*n*42
 nihilism, 55, 137, 323, 335–36, 347;
 nihilists, 330; in Buddhism, 24,
 174*n*11, 277, 299, 327
nirvāṇa, 133, 248, 302*n*1, 357*n*49; and
 saṃsāra, 92–93, 172*n*4, 241, 323, 333
 Noble Truths; *see* Four Noble Truths
 Norbu, N., Rinpoche, 236, 238
 no-self, 107–9, 133, 137, 180*n*36, 286
 noumenon, 323, 328–29, 333, 339, 366;
 see also Kant, I.; transcendentalism
 Nyanaponika, Thera, 178*n*30, 193
 Nyanatiloka, 73, 83*n*7
 Nyingma, 217, 402

 objective phenomena, 8–11, 23–24, 89,
 231–2, 337; objective data and
 evidence, 2, 18; objective world or
 reality, 1, 11–14, 19–20, 101–2, 242,
 283–84; objectivation, 340;
 objectification of research subjects,
 37, 39
 objectivity, 21, 329, 410; objectivism,
 11–12, 410, 412–13; *see also under*
 illusions
 objective analysis and inquiry, 3, 10, 27,
 102; objective knowledge, 3, 20, 22,
 332, 340–42, 351–53
 object permanence, 163
 Ojai Foundation, 417–18
 Olcott, H. S., 44–45
 omniscience, 52, 391
 ontogeny, 149, 163, 186*n*55
 ontology, 163, 231, 283, 402; and
 quantum theory, 343–51, 359*n*69,
 393–95; ontological change, 333;
 ontological closure, 340; ontological
 stance, 26; *see also under*
 reductionism
 optics, 291; *see also* light
 Orientalism, 4, 7, 21, 27; Orientalists, 5
 Ornstein, R. E., 65*n*35
 out-of-body experience (OBE), 231–32,
 245–46, 252
 own-being, *see* intrinsic existence
 Oyama, S., 182*n*41

- Padma Karpo, 236
- Padmasambhava, 242–45, 247, 252
- paramārtha (satya)*; *see* Two Truths, ultimate truth
- particles, 13–14, 272–74, 293–97; in Buddhism, 60, 65*n*39; in Buddhism and science, 48, 59, 74, 283–84, 392–95; in classical particle mechanics, 325, 371; in quantum mechanics, 312–13, 338, 345–47, 370–73; point-particles, 359*n*69; string-particles, 359*n*69; gas particles, 312; mass particle, 379; neutrino, 397; separation between particles, 409; particle physics, 57, 65*n*34, 79, 343; *see also* atoms; and *under* quantum theory; Rindler, W.
- Patton, K. C., 21–22
- Perani, D., 197
- perception, 124, 240, 262–64, 339, 374; perceiver, 163; scientific research of, 421; in Buddhism, 78, 82, 94, 108, 286; and imagination, 193, 196–98, 201–6, 211, 219; dreaming and waking perception, 231, 248–49; false or inverted perceptions, 170, 172*n*4; mental perception, 23, 232; one central perception, 179–80*n*36; sensory perception, 105, 197; visual perception, 121, 196, 198; perceptive automatisms, 329; action-perception-action loop, 134; apperception, 173*n*9; *see also* senses
- Perky C. W., 208
- permanence, 159, 165, 172*n*4, 186*n*54, 287; permanent entities, 299; *see also* impermanence
- perennialism, 53
- person, 105–37, 158, 179*n*34, 183*nn*42, 43, 185*n*52; Divided Person metaphor, 114, 117, 123, 131, 134; personal individuality, 179*n*35; personhood, 400; *see also under* body
- personality, 59, 111, 176*n*22, 177*n*24, 179*n*32, 186*n*53; multiple personality disorder, 125
- Petitot, J., 352
- phenomenology, 193–226, 250, 252; phenomenologists, 325, 348; Buddhist phenomenology, 55, 72, 77; Natural Attitude, 205, 207, 348; *see also under* mind; neurosciences
- philology, 36
- philosophy, 6–8, 15, 27, 185*n*49, 317–19; philosophers, 19, 207, 233, 273, 342, 385, 387; academic discipline of, 393, 415, 418; detached stance of, 128; postmodern views of, 22–23; and identity, 143; philosophy of mind, 111, 118, 131; philosophy of science, 55, 65*n*41, 69–71, 325–26, 335–36, 339, 341; philosophers of science, 336, 347, 349, 363; ancient Grecian, 375, 380–81; British, 47; Eastern, 326; Jesuit, 135; moral, 44; Western, 76, 79–81, 95, 121, 134, 138*n*2, 303; Western philosophers, 6, 193, 383; philosophical debate, 197, 345, 389; philosophical grounds of science, 65*n*37, 372; *see also* Buddhist philosophy; and *under* Descartes, R.; Hinduism; Kant, I.; Newton, I., Sir
- photons, 306, 372, 374, 381, 385, 392–96; three attributes of, 390; and electromagnetic waves, 294
- phylogeny, 149, 163, 186*n*55, 223
- physical sciences, 15, 231, 259–60, 276, 363
- physicalism, 13–14
- physics, 55, 302*n*3, 400, 409; physicists, 13–14, 51, 134, 301, 306, 392, 403; knowledge of, 20, 45, 403, 407; laws or principles of, 15–17, 270–71, 275; progress or evolution of, 14, 363–74, 378–95, 410; role of mind in, 57; and Buddhism, 283, 301–21, 334–36, 382;

- classical physics, 285, 290–98, 338, 341, 343–47, 361*n*103, 370–75; microphysics, 347–53; particle physics, 57, 65*n*34, 79, 325–26; *see also* quantum mechanics; quantum physics; quantum theory; *and under* evolution; logic; metaphysics; Newton, I., Sir
- physiology, 154, 157, 162, 184*n*44, 224, 231; in Vajrayāna Buddhism, 38, 57, 74; physiological correlates of motor imagery, 199; *see also under* neurosciences
- Piaget, J., 163, 182*n*41, 184–85*n*48, 185*n*49
- Planck, M., 302*n*2; Planck's constant, 13, 277, 344, 376, 379–80, 390; Planck time, 370, 376–77, 380
- Plato, 193, 204, 209, 212, 303, 350
- pluralism, 167
- Podosky, B., 343
- Popper, K., 349, 359*n*71
- position emission topography (PET), 57, 196–97
- postmodernism, 20–26; *see also under* dogma; faith; metaphor; metaphysics; philosophy
- prāṇa*, 238, 245
- pratītya-samutpāda*, *see* dependent origination
- Prāsaṅgika Madhyamaka, 103*n*2, 105–6, 303, 307–11, 323; and emptiness, 65*n*38, 65*n*39; *see also* Madhyamaka
- prayer, 3, 24, 95
- primary visual areas (PVA), 196–98, 202, 206
- Proudfoot, W., 58–59
- psychiatry, 53, 105, 111, 117; psychiatrists, 184*n*48
- psychoanalysis, 58; psychoanalytic conceptions, 176–77*n*23
- psychology, 3, 79, 109–13, 263, 400–1; psychologists, 5, 172*n*5, 179*n*34, 179*n*35, 207, 253, 263; founding of, 48; terminology of, 185*n*49; and Buddhism, 5–8, 47, 131, 303; and consciousness, 248; Buddhist psychology, 5, 77; Buddhist and Western psychology, 52, 107, 120, 136–37, 138*n*1, 149; clinical psychology, 6; developmental psychology, 53, 143, 161, 184–85*n*48; developmental psychologists, 163; social psychology, 177*n*25; Western folk psychology, 138*n*2; *see also* evolutionary psychology; *and under* cognitive sciences; meditation; natural selection; neurosciences
- psychological processes, 15, 156, 159, 177*n*24; psychic organization, 183*n*43
- psychophysiology, 149, 231, 234
- psychotherapy, 52
- Puccetti, R., 125
- Putnam, R. A., 337
- quantum mechanics, 14, 283–84, 302*n*4, 319, 360*n*94, 366–73; and Buddhism, 76, 82, 306, 312, 323–54, 385–95; quanta, 295, 343, 349, 371, 373–77, 385, 392–96; quantization, 293–94, 344; algebraic physics, 376–78; dynamic law, 378–83; evolutes, 382; mathematical formulations, 379; quantum variable, 384; orthogonality, 375; wave function, 295–97; quantum statistics, 345; superposition principle, 378; *see also* geometry; mathematics; *and under* Heisenberg, W.; motion
- quantum physics, 79, 341–43, 347, 372–75, 420; physicists, 293, 297, 312, 370–79, 382, 385, 389, 393
- quantum theory, 134, 283–302, 325, 338, 371–80; field theory, 345–47, 359*n*69, 366, 369, 375–84; grand unified theory, 378, 384; membrane theory,

- quantum theory (*continued*)
 376; nonlocality, 82, 293, 297–98, 302*n*7, 378, 394; probabilistic prediction, 293, 295–97, 348–49, 353, 359*n*69; quantum measurement problem, 293, 296, 301, 365; string theory, 376, 378; superstring theory, 12, 359*n*69, 378; uncertainty principle, 293–95, 403; wave-particle duality, 274–77, 293–97, 301, 344–46, 372; *see also under* absolutes; complementarity; experimentation; matter; measurement; ontology
- quietism, 133–34
- Rank, O., 168
- rationalism, 46, 50–51, 133, 182*n*41, 188*n*62, 327; rational attitude, 412; rational arguments, 17; rational inquiry or analysis, 5, 20, 157, 414; procedural rationalities, 337; *see also under* Aristotle; Descartes, R.; Sartre, J.-P.
- realism, 55, 133, 277, 285, 335–37; realists, 337, 347, 393; metaphysical realism, 24; transcendental realism, 327; realist schools of Buddhism, 106; realist stance or interpretation, 25–26, 324, 345, 358*n*65; *see also* empiricism
- reason, 77, 80, 114, 327–30; *see also under* Kant, I.
- reasoning, 96, 129, 157, 331, 389–90; dialectical or syllogistic reasoning, 95, 348
- rebirth, 78, 174*n*11, 252, 318; in Pentecostal Christianity, 19; future lives, 23–24, 26; *see also under* karma
- reciprocity, 351; in cognitive science, 202–3, 213; in physics, 368, 372, 376, 382
- recognition, 93, 198, 213–14
- reductionism, 38, 269, 276, 412; ontological reductionism, 12–14; reductionistic claims, 21; reductionist interpretations, 214
- Reichenbach, H., 326
- reification, 186*n*55, 332, 354; definition of, 366; of emptiness, 323; of self, 106, 166; in science, 325, 341, 368; *see also under* entiticity; essence
- reincarnation, 397; *see also* rebirth
- relativity theory, 14, 283, 290–93, 319, 326–27, 349–52, 365–84; classical relativity theory, 371; special relativity, 303, 365, 367, 371, 375; general relativity, 365–66, 369–70, 375–76, 378–80; relational-propensionist view, 346, 359*n*71; universal relativity, 363–65, 380; *see also* Buddhist relativity; *and under* Einstein, A.; evolution; Kant, I.
- Religionwissenschaft*, *see* scientific study of religion
- representationalism, 335
- reproduction, 152, 176*n*21; reproductive success, 157–58, 180*n*36
- Restak, R., 179–80*n*36, 181*n*38
- revelation, 14, 382
- Ricard, M., 259–60, 261–79, 420
- Richard Gere Foundation, xviii
- rigpa*, *see* awareness, primordial
- Rindler, W.: Rindler particles, 346
- rituals, 3–4, 6, 24, 130, 174*n*11; ritualized behavior, 6
- Rodriguez, E., 384
- Rosch, E., 54–56, 128
- Rosen, N., 343
- Rousseau, J.-J., 150, 175*n*14
- Ruusbroek, J. V., 405
- Sacks, O. W., 111
- sacralization, 165–66, 185–86*n*53, 188*n*62, 188*n*66
- Sakharov, A., 382
- salvation, 133, 188*n*62, 354*n*1
- saṃsāra*, 148–49, 153–55, 248, 308, 318; *see also under* *nirvāṇa*

- saṃskāra*, see conditioned phenomena
 Samten, C., 80
saṃvṛti (*satya*), 333, see Two Truths, conventional
 Sautman, M., 417–18
 Sautrāntika, 94
 Sarvāstivāda, 298
 Sartre, J.-P., 204, 207–8, 212; Sartre's rationalistic account of imagination, 208–9
śamatha, see meditative quiescence
 Saul, J. R., 171n1
 Schlick, M., 326
 Schrödinger, E., 296, 346; Schrödinger equation, 296, 302n6, 353
 Scientific Revolution, 10, 46, 316
 scientific study of religion, 20–27, 36–39
 scientism, 10, 18, 22, 354
 scripture, see Buddhist scriptures
 Searle, J., 19
 secularism, 188n62; secularization, 81–82; secular religion, 168
 seed syllables, 235, 242
 Segal, I., 366–67, 371
 self, 105–6, 107–37, 180n36, 183n43, 265, 286; development of, 162–63, 184–85n48; imputation or reification of, 166, 172n4, 181n38; sense of, 143, 179n34, 254; vanishing of, 135; in Buddhism, 26, 143, 147–48, 189n67, 288; in Buddhism and Western science, 53–55, 183–84n43; in Buddhist scripture, 173n9, 177n24; in Kantian philosophy, 332; and the brain, 16; and nonself or not-self, 151, 161, 163, 170, 172n4; inner or private self, 115–17, 123, 164; self-control, 115–16; self-centeredness, self-interest, or selfishness, 169, 220–21, 259, 265, 177n25, 320; self-grasping or self-making, 164, 166, 168; selflessness, 185n50; self/other dichotomy, 169, 250, 266, 303; self-preservation, 157, 223; self-transformation, 334, 336, 341, 354; self-transposal, 216, 225; self-world relationships, 211; see also no-self; and under attachment; body; belief; illusions; interdependence; language; metaphor; mind
 self-existence, 160, 174n11, 179n31, 179n32; see also intrinsic existence
 self-identity, 164, 169, 180n37, 185n51; Buddhist views of, 154–61, 173n10, 176n22, 177n24, 179n31, 186n55, 251
 self-organization theory, 182n41, 189n68; see also under evolution
 senses, 23, 263, 332, 340, 355n20;
 sensations, 155, 180n36, 181n39, 217, 261, 326; sensorimotor activities, 200; sensory activation, 201; sensory coupling, 213; sensory deprivation, 202; sensory engagement, 243; sensory experience, 9, 236; sensory faculties, 74, 179n33; sensory imagery, 13, 74; sensory input, 11, 202, 231, 248–49; sensory presentation, 199; sensory system, 15; sensual desire, 176n22, 177n23, 179n31; twelve sense-bases, 92, 101, 103n3; five sense objects, 173n8; six sense-spheres, 178n27; sense fields, 177n23; sense qualities, 309. See also under mental activity
 Sherrington, C. S., 110
 Shimony, A., 393
 Simon, H., 120
 sin, 174n11; sinners, 6; sinful creatures, 405; Original Sin, 132
 S-I-W test, 367–69, 381–82
skandhas, see aggregates
 skillful means, 102, 298
 Sloan Foundation, 418
 sleep, 56, 135, 233, 235, 241–43; 420; dreamless sleep, 96; REM sleep, 239; sleeping posture, 238–9; insomnia, 244

- Smith, H., 134
 Smolin, L., 384
 Snellgrove, D., 174–75ⁿ¹¹
 social constructions, 21, 167, 182ⁿ⁴¹, 184ⁿ⁴⁷
 socialism, 168
 social order and structures, 162, 187ⁿ⁵⁸
 social sciences, 20, 143, 146, 148, 160, 168, 188ⁿ⁶⁶; social scientists, 165; Standard Social Science Model, 182ⁿ⁴¹
 sociology, 37, 117, 184ⁿ⁴⁷, 186ⁿ⁵⁵, 415; sociologists, 162, 180ⁿ³⁷, 184ⁿ⁴⁴; sociological factors, 40, 57
 Socrates, 414
 soteriology, 293, 325, 336, 338–39, 354, 354ⁿ¹; *see also* salvation
 soul, 3, 26, 46, 113, 137, 332
 sound, 103ⁿ³, 289
 Soyen S., 46
 space, 13, 249, 290, 315, 326, 342, 382–83; and time, 351, 363, 367–69, 376–79; absolute space, 335, 368; physical space, 246; quantum space-time, 13, 251, 363, 366–69, 371–84; space-time atoms, 376; space atoms, 377, 382; space-time point, 368, 377–78; vector space, 371; spatial dimensions, 14, 303; spatial location, 115–16, 139ⁿ¹⁰, 198, 372; spatial perception, 121, 124; spatial position, 378; spatial properties, 196–97; spatial relations, 112, 120; spatiotemporal environment, 361ⁿ¹⁰³; “space around” method, 403, 407–9; *see also under* Aristotle; Einstein, A.; Galileo; Hilbert, D.
 speech, 105, 113, 117–18, 122–23, 125; Divine Speech, 241
 speed, 290, 368; *see also under* light
 Sperry, R. W., 111, 125
 Spiegelberg, H., 223
 spirit of awakening, 220–21, 236
 spirituality, 235, 253, 261, 400–1; spiritual practice, 404, 407; spiritual dimensions of reality, 406
 Stalin, J., 187ⁿ⁵⁹
 Stewart, K., 253
 Strawson, G., 111
 Strivers, R., 187ⁿ⁵⁹
 structuralism, 51, 58–59
 Subhadra Bhikshu, 44–45
 subjective phenomena, 8–10, 14, 23, 231; subjective biases, 89; subjective domains or realities, 1, 11, 19, 21, 232
 subjectivity, 27, 321; subjectivation, 340; *see also under* illusions
 substance, 12–13, 241, 274, 350; of consciousness or self, 108, 137, 276; of dreams, 237; of time, 305, 310; and causality, 326, 328–29; radioactive substance, 295; substantialist views, 339, 354; *see also* essence; matter
 substrate consciousness, 193–94, 204, 211–2
 suffering, 4, 92–94, 160, 262, 286–88; freedom from, 89, 156, 160, 173ⁿ¹⁰; causes of, 8, 97, 132, 143, 147–48, 189ⁿ⁶⁷, 283, 303, 307, 318–19; and religious belief, 188ⁿ⁶²; and science, 45; mental suffering, 278; *see also under* ignorance
 Sullivan, H. S., 179ⁿ³⁵
 superstition, 411
 Surya Das, Lama, 233
sūtra, *see* Buddhist scriptures
 Suzuki, D. T., 46, 134
svabhāva, 146, 299; *see also* essence; intrinsic existence
 symbols, 51, 162–69, 184ⁿ⁴⁶, 186ⁿ⁵³, 188ⁿ⁶⁵, 223; symbolization, 164, 216, 219
 symmetry, 306, 314, 345, 379; principles of, 14, 391; asymmetry, 15, 262, 306, 316, 389
 sTag brag, 41

- Talbot, M., 326
 tantra, *see* Vajrayāna
 Taoism, 51, 134, 400–1; Taoists, 400, 405
 Tarthang Tulku, 249, 251, 254
 Taylor, C., 360n90
 technology, 23–24, 292, 421; Tibetan
 views of, 41–43, 69, 73–76, 89, 388;
 and Buddhism, 48, 49, 95; *see also*
 under measurement
 Teller, P., 345–46
 teleological explanations, 48
 temperature, 291, 315–16
 temples, 24
 theistic religion, 63m16; theists, 14;
 monotheism, 39; pantheism, 39, 40;
 polytheism, 40, 62n8
 theology, 8, 36, 400; theologians, 2;
 Christian theology, 335, 393;
 theological premises and assertions,
 17, 22
 Theravāda, 216, 298
 thermodynamics, 291, 313, 317
 Tholey, P., 250–7
 Thompson, E., 54–56
 Three Jewels, 318
 three marks of existence, 172n4
 three poisons, 148, 153–56, 169, 173n8,
 174m11, 178n29
 Thurman, R. A., xv–xvi; 52, 63n9,
 64n28
 Tilopa, 235–36
 time, 13–14, 51, 113, 303–21, 326, 382–83;
 atomicity of, 381; Buddhist analyses
 of, 99; dimensions of, 375; points of,
 372; as linear or cyclic, 39–40, 62n6,
 62n8; and evolution, 152, 185n50;
 and self, 118; absolute time, 368;
 clock time, 122, 128, 135; path time,
 378–79; temporality, 201, 211; tem-
 poral pulses, 201–3; temporal rela-
 tions, 120; time interval, 297, 376; *see*
 also under Aristotle; Einstein, A.;
 Galileo; Planck, M.; space
 Tomasello, M., 185n50
 tonglen, 220–3, 225
 Tooby, J., 182n41
 totemic ancestors, 187n60
 Training the Mind research project,
 61m1, 63m12
 transcendentalism, 8, 12, 18; *see also*
 under realism
 transcendental deduction, 350–51, 353,
 360n90, 360n94, 361m103
 transcranial magnetic stimulation
 (rTMS), 197
 Trivers, R., 158
 Trungpa, C., Rinpoche, 217, 220, 227n6
 truth, 3, 72, 186n54, 209, 310, 406, 411;
 closed set of, 334; pursuit of, 15, 26;
 the root of, 382; absolute truths, 22,
 165–66, 283, 342; objective or
 scientific truth, 12, 19, 26, 46, 326;
 inner truths, 270; Buddhist truths,
 26, 45; *see also* Four Noble Truths;
 Two Truths
 truth claims, 21–23, 25–27, 333
 Tsongkhapa, 77, 217–8, 227n7, 236, 246
 Tu W., 387
 Tweed, T., 43
 Two Truths, 289–90; conventional
 truth, 289, 292, 299, 329–33, 340,
 357n48, 357n49; ultimate truth, 289,
 302m11, 329, 333, 340–41
 vacuum state, 346
 Vaibhāṣika, 94, 109
 Vajrayāna, 96–97, 216, 219–20, 223, 231;
 Kālacakra tradition, 377; *see also*
 under physiology
 Vajra-Yogini, 241
 value, 3, 9, 17; values, 2, 51, 114, 127–28,
 335, 411; value judgments, 130
 Varela, F. J., xii–xiii, xviii, 54–56, 64n25,
 193–94, 195–230, 237, 267–68, 335, 347,
 356n38, 363, 417–20; Varela's autopoietic
 theory of cognition, 356n38

- variables, 122, 343–44, 366, 370–72, 380, 384; *see also* under Bohm
- Vasubandhu, 62*n*8, 151, 178*n*28
- vectors, 352, 371, 374–76
- velocity, 290, 311–12, 321*n*2, 371, 375; relative velocities, 368
- vipāśyanā*, *see* contemplative insight
- vision, 125–26, 154, 193, 196–202; peripheral vision, 403; visual fields, 181*n*38; 196; visual system, 179*n*33; *see also* primary visual areas (PVA)
- visualization, 217–23, 225, 237, 241–47, 250; for physics, 372–73; *see also* under mind
- volition, 92, 111, 173*n*9
- waking, 234, 237, 242–3, 249–50, 252; *see also* under consciousness; perception
- Waldron, W. S., xiii, 143–44, 145–91
- Wallace, B. A., xiii, xvii–xviii, 1–29, 55, 64*n*26, 65*n*40, 250, 255, 265, 276, 360*n*83, 382, 385, 387–97, 418, 420
- Wangchen, Geshe, 85*n*35
- Wangyal, T., Rinpoche, 238–40
- Watson, J. B., 263
- Weber, M., 36
- Weinberg, S., 14
- Wheeler, J. A., 134, 301, 360*n*83
- Whitehead, A. N., 384
- Wigner, E. P., 366–68
- Wilber, K., 53–54
- Wilson, E. O., 2–4, 7–20, 24
- Wilson, T. B., 46
- Wimsatt, W. C., 120, 128, 138*n*5
- wisdom, 96, 102, 261, 278, 298, 332–33; of a Buddha, 310, 318; Divine Wisdom, 248; primordial wisdom, 241
- Wittgenstein, L., 354
- World Parliament of Religions, 45–46
- Wolf, Eric, 186*n*56
- Wolf, Ernest, 166, 172*n*5
- Wonton K., Lama, 245
- Wundt, W. 48
- wu wei*, Taoist praction of no-action, 19, 134
- yidam*, 219, 221, 223
- yin* and *yang*, 51, 64*n*33
- yogas, 235–36; yogis, 231–2, 245, 247–9, 252; *see also* under Buddhist literature; dreaming
- Yogācāra, 94
- Young, S., 253–54
- Zajonc, A. G., 382, 385, 387–97, 420
- Zeilinger, A., xiii–xiv, 382, 385–86, 387–97, 420
- Zemey K., Rinpoche, 84*n*22
- Zen, 19, 109, 130, 135, 402, 404–5; Zen Buddhists, 46, 57, 65*n*35
- zoologists, 2