

## Index



- abduction, 97
- Absolute, the, 149
- abstraction, 77, 84, 90
- Actualism, 8–9, 116, 125, 158
- Alexander, S., 86
- Anderson, J., 76
- Anscombe, G.E.M., 86–9, 93, 123
- Aquinas, St T., 150
- Aristotle, 93
- Ayer, A.J., 15, 57–8
- Bacon, J., xiii
- Bare Particulars, rejection of, 77
- Beauchamp, T., 22
- Berkeley, G., 97, 130
- Blanshard, B., 77
- Blumenfeld, D., 14–15
- Boyd, R., 151
- Bradley, F.H., 112, 155
- Bradley, M., xiii
- Braithwaite, R.B., 58, 99–102
- brakeless trains, case of, 20
- Broad, C.D., 20
- causality, 4, 58, 60, *See also laws, causal properties*, 150
- Regularity theory, 10, 86–7
- Singularist theory, 10, 87–9
- chances, as objective single-case, 27, 30–2, 56, 93–4, 114, 120
- classes, 126–7
- commonsense, 49
- confirmation, 38–43, 97
- construction-function, 80, 140
- ‘cosmic epochs’. *See laws, spatio-temporally limited*
- counterfactuals, 91, 124, 146
- Epistemic theory of laws, 58–9
- limiting relative frequencies, 33
- Necessity theory of laws, 156–7
- probabilistic laws, 126–7
- Regularity theory, 41–3, 96
- singular necessities, 90
- Systematic theory of laws, 64–5
- uninstantiated laws, 104–5, 111–13, 115–17, 121
- Currie, G., xiii, 116
- Davidson, D., 86–9
- determinables and determinates, 85, 106, 143
- Determinism, 45, 133–4, 138
- dispositions, 8
- Dix, A., 138
- Dretske, F.I., 40, 58, 78, 85
- Ducasse, C.J., 87
- Fodor, J., 129
- Forrest, P., xiii, 4, 97, 131–3, 144
- Foster, J., 124
- Gasking, D.A.T., 86
- Goldstein, L., xiii
- Goodman, N., 15, 53, 57–8, 63
- ‘grue’ problem, 15, 53–4, 56, 63, 92, 129
- Hanson, R., 7
- Harré, R., 7
- Hempel, C., 38
- Hochberg, H., xiii
- Hume, D., 4, 20, 112
- causation, 4, 86–7
- inductive scepticism, 48–55, 98
- necessary connection, 37, 72, 101
- Identity of Indiscernibles, Principle of, 150
- induction, 5, 48–55, 65, 96–102, 149
- inductive scepticism, 5, 48–55, 99
- inference to the best explanation
- induction, 48–9, 51–2, 96
- laws, 37–8, 68, 91, 95
- predictive success of science, 6
- rationality, 54

- infinitesimals, 31
- Instantiation, Principle of, 75–7, 112, 134, 154–7. *See also* states of affairs
- Instrumentalism, 7, 101
- Jackson, F., xiii
- Johnson, W.E., 20
- Kneale, W.C., 11, 18, 48–55
- knowledge, 60
- Kripke, S., 148
- Langtry, B., xiii
- laws
  - bridge, 3, 129
  - causal, 14, 88, 122–3, 147
  - conservation, 139
  - derived, 37, 41, 136, 140, 143, 162
  - deterministic, 27–31, 128, 134, 136, 143, 162
  - disjunctive, 144
  - Eliminativist theory, 5, 64–5
  - Epistemic theory, 57–60
  - exclusion, 6–7, 80, 142–4, 162
  - forms of, 6–7
  - functional, 6–7, 21, 35, 94, 103–8, 128, 143, 161
  - higher-order, 94, 105–8, 115, 117, 121, 161
  - inference-licences, 131–2
  - infinitely qualified, 25–7, 94, 137
  - Instrumentalism about, 8
  - iron, 79, 99, 137–41, 143, 162
  - lack of paradigms, 5–7
  - local uniformities. *See* Smith's garden, case of
  - oaken, 99, 137–41, 144, 158
  - probabilistic, 6–7, 12, 27–34, 56, 94, 116, 119–28, 142, 151, 158, 161
  - Ramsey–Lewis theory. *See* laws, Systematic theory
  - Realism about, 8, 26
  - Resiliency theory, 33, 57, 60–1, 63, 67
  - spatio-temporally limited, 22–3, 93, 107
  - steel, 140
  - Systematic theory, 21, 57, 61–8, 92
  - underived, 37, 41, 136, 142–3, 145
  - uninstantiated, 19–21, 35, 59, 63, 92–3, 104–5, 109–11
  - universal scope, 131–4, 143–4
  - vacuous. *See* laws, uninstantiated
- Lewis, D., xi, 74, 79
- brakeless trains, 19
- counterfactuals, 46, 65
- difficulty for Naïve Regularity theory, 129
- disjunctive laws, 136, 143
- exclusion laws, 137
- probabilistic laws, 29
- 'rubber' laws, 138
- Systematic theory of laws, 62–8
- uninstantiated laws, 20
- limiting relative frequency, 28–9, 31, 33
- Locke, J., 90
- Lovelace, J., 81
- Mackie, J. L., 32–4, 44, 46–8, 53, 65
- magnitudes, physical, 103
- Meinong, A., 19, 153
- Mellor, D.H.
- Braithwaite–Popper argument supported, 101
- objective chances, 30
- probabilistic laws, 30
- scientific identifications as laws, 129
- uninstantiated laws, 19–20, 117–18, 158–60
- unintelligibility of Universals theory of laws, 32
- moas, case of, 17
- Molnar, G., 10–11, 14, 19, 58, 129
- Moore, G.E., 5, 49
- Mortensen, C., xiii, 48
- Musgrave, A., 7
- Naturalism, 76
- necessitation
  - different patterns of, 85
  - explanatory force, 95
  - formal properties, 131–2, 145–7
  - laws, 36–7, 46, 71, 79
  - negations, 137, 139
  - primitive, 82, 85–6, 131
  - probabilistic laws, 122–6
  - universals, 89–92, 131
  - without law, 88–9, 91–3
- Newton, I., 6, 20, 139, 159
- Nominalism, about universals, 15, 72, 75–6
- O'Neill, L., xiii
- Occam's Razor, 101, 120
- Order Invariance, Principle of, 92
- Pap, A., 129
- Paradox of Analysis, 5
- Particulars, Bare, 77

168

- Peirce, C. S., 97
- Phenomenalism, 58
- Physicalism, 76
- Plato, 78, 85, 117
- Popper, K.R., 17, 99–102
- possible worlds, 153
- Potts, T., 35
- Powers, 8, 31–2, 113–15, 120, 150, 157
- probabilities, initial, 97
- probabilities, logical, 31, 49, 53–4, 101–2
- propensities, objective single-case. *See* chances, objective single-case
- properties
  - disjunctive, 140
  - essential, 156
  - general, 13
  - geography, 3
  - higher-order, 105–7, 132
  - identity-conditions, 150–1
  - negative, 134–7
  - relational, 144, 162
- quasi-universals, 73, 93–4, 107, 132
- Quine, W. V., 84
- Ramsey, F.P.
  - Epistemic theory of laws, 58
  - Systematic theory of laws, 57, 61–3, 66–7
  - unintelligibility of Universals theory of laws, 32
- relations, 77
- resemblance nominalism, 15, 64, 75
- Resiliency. *See* laws, Resiliency theory
- Russell, B., 77
- Sanford, D., xiii
- science, tasks of, 3, 129
- Shoemaker, S., 151–2, 157
- Skyrms, B., 32, 57, 60–1, 77, 153
- Smart, J.J.C., xiii
- Smith's garden, case of, 24–5, 61, 93–4, 132, 144
- Socrates, 5
- states of affairs, 77
  - contingency, 148
  - laws, 81–3, 89–92
- negative, 120, 135, 137
- universals abstractions from, 81–3, 90, 104, 112, 154, 161
- Stove, D.C., xiii, 50, 53, 67
- Strawson, P.F., 51, 54, 58
- Suchting, W.A., 56, 58, 67
- Sufficient Reason, Principle of, 149
- Swinburne, R., xiii, 152
- Swoyer, C., xiii, 103, 150, 155
- Tichy, P., 83
- Tooley, M., xi
  - Braithwaite–Popper argument, 102
  - causal necessitation, 147
  - confirmation of law-statements, 40
  - Determinism, 133
  - disjunctive laws, 140, 143
  - Epistemic theory of laws, 59
  - initial probability of law-statements, 97
  - laws as atomic facts, 150
  - probabilistic laws, 30, 124–5
  - Smith's garden case, 24–5, 61, 93
  - spatio-temporally limited laws, 22
  - Systematic theory of laws, 67n3
  - uninstantiated laws, 20, 109, 122
  - universal scope, laws of, 131–3, 144
  - universals, contingent beings, 156
    - 'saturation from above and below', 154
    - Universals theory of laws, 79–80, 86
- Toulmin, S., 7
- Tractatus*, 38, 153
- truth, partial, 6
- Tweedale, M., xiii, 149, 153–4
- Universal Gravitation, Law of, 6
- Van Fraassen, B., 101
- Van Inwagen, P., xiii, 89
- 'victory of particularity', 82
- Watkins, J.W.N., xiii, 138
- Watson, W.H., 7
- Whitehead, A.N., 22
- Williams, D.C., 53
- Wittgenstein, L., 7, 38, 77