

Index

- abstract conceptual approach to mathematics, 56
 Ackermann, Wilhelm, 133, 140, 143, 149
 A-Deduction, 177
 Aldea, Smaranda Andreea, 7, 82, 88, 192
 Allison, Henry, 40, 192
 Alston, William, 89, 192
 analytics, 91, 101, 119, 130, 131, 180
 Anaxagoras, 99
 and so forth, 100, 131, 172
 anti-exceptionalism, 181
 antinomies, 100, *See* paradoxes
 Archimedean point, 42
 Aristotle, 33, 80, 103, 120, 124, 178
 atomism, 104
 Awodey, Steve, 54, 192
 axiom
 Archimedean axiom, 57
 axiom of choice, 37, 38, 97, 101, 149
 axiom of completeness, 11, 54, 56, 57, 85, 120
 axiom of reducibility, 102
 existence axioms, 64, 66, 77
 Peano's axioms, 139
 power set axiom, 100, 101
 regional axiom, 63, 64, 77, 78, 122
 axiomatic ideal, 12, 13, 86, 87, 88, 90, 138, 147, 148, 156

 Bachelard, Suzanne, 24, 115, 122, 123, 148, 192
 Baumann, Julius, 10, 11
 B-Deduction, 177
 Beaney, Michael, 76, 192, 195, 196
 Becker, Oskar, 6, 75, 91, 92, 93, 94, 95, 97, 102, 110, 111, 112, 116, 117, 137, 141, 143, 171, 192, 201
 Benacerraf, Paul, 167, 192, 193, 198, 203
 Berghofer, Philipp, 19, 42, 191, 192, 197
 Bernays, Paul, 137, 138, 195
Besinnung, 3, 4, 5, 7, 8, 9, 11, 16, 20, 21, 22, 23, 24, 25, 31, 32, 34, 35, 36, 38, 39, 41, 52, 72, 112, 122, 135, 137, 150, 157, 158, 159, 161, 174, 180, 191
 critical, 105
 historical, 188
 historical-teleological, 187
 natural, 9, 23
 radical, 4, 6, 13, 21, 23, 24, 35, 42, 91, 112, 113, 155, 158, 180, 187, 189
 Rückbesinnung, 24
 Selbst-Besinnung, 24, 25, 90, 155
 transcendental, 7, 22, 23
 universal, 8
 Weltbesinnung, 8
 Beyer, Christian, 21, 81, 192, 193, 197
 Biemel, Walter, xiv, xv, 144
 Bohner, Helmuth, 91
 Bolzano, Bernard, 43, 168, 183, 192
 Boolos, George, 149, 172, 193
 Born, Max, 76
 Brentano, Franz, 1, 43, 163
 Brouwer, Luitzen Egbertus Jan, 27, 97, 98, 100, 102, 103, 104, 106, 107, 108, 109, 110, 111, 112, 160, 201, 205, 206
 Brunschvicq, Léon, 75
 Burali-Forti, Cesare, 75
 Busse, Ludwig, 43

 Cantor, Georg, 5, 10, 20, 26, 48, 54, 56, 60, 76, 99, 171, 179, 193, 199
 Carnap, Rudolf, 43, 75, 142, 182, 183, 193
 Carr, David, xv, 22, 146, 193, 205
 cartesianism, 42
 Cassirer, Ernst, 74, 75, 79, 94
 categorical theory, 12, 53, 61, 63, 120, 161, 164
 categoricity, 11, 12, 51, 52, 53, 54, 55, 57, 59, 60, 61, 68, 70, 71, 72, 121, 134, 135, 139, 140, 147, 148, 149, 159, 188, 190
 categoricity theorem, 53
 Cavaillès, Jean, 138, 193
 Centrone, Stefania, 1, 54, 64, 126, 193, 194, 196, 206
 Cobb-Stevens, Richard, 17, 34, 80, 124, 193
 Cohen, Hermann, 94
 collective combination, 45, 46

- community of empathy, 6, 13, 20, 35, 112, 150, 157, 158
- completeness, 10, 11, 25, 36, 56, 58, 61, 65, 68, 69, 70, 71, 121, 139, 140, 154, 158, 159, *See also* definiteness
- computational, 12, 67, 69, 70, 72, 85
- descriptive, 70
- of arithmetic, 139
- semantic, 71
- syntactic, 12, 69, 70, 85, 136, 138, 139, 159, 161
- computability, 122, 123, 159
- consequence
- analytic, 70, 125
 - deductive, 70, 71
 - logical, 64, 84, 149, 179
 - semantic, 70, 71
- consistency, 11, 36, 64, 67, 69, 92, 99, 105, 106, 108, 112, 120, 135, 138, 139, *See also* non-contradiction
- constitution, 6, 30, 39, 51, 92, 111, 114, 115, 116, 127, 134, 160, 177
- constructible infinite, 101, 131, 134, 170, 172, 173
- constructible sets, 190
- constructive universe, 171
- constructivism, 12, 14, 31, 101, 116, 122, 126, 161, 173, 183
- continuum hypothesis, 5, 171
- correlation
- between the objectivity and the subjective achievements that constitute it, 9, 10, 39, 40, 41, 42, 44, 50, 51, 55, 114, 115, 117, 128, 184
 - one-to-one, 45, 46, 55, 67, *See also* one-to-one correspondence
- Corry, Leo, 73, 74, 75, 194
- Courant, Richard, 138, 206
- critical view of logic, 14, 175, 185, 186
- Crowell, Stephen, 22, 88, 89, 194
- Curry-Howard isomorphism, 124
- da Silva, Jairo José, 2, 6, 11, 54, 62, 73, 75, 117, 121, 126, 149, 181, 193, 194, 199
- Dawson, John W., 138, 194, 196
- De Caro, Mario, 18, 22, 194
- decidability, 66, 67, 78, 90, 92, 123, 124, 125, 127, 135, 139, 140, 148
- decision problem, 140
- Dedekind, Richard, 11, 20, 48, 53, 56, 59, 60, 68, 85, 98, 99, 119, 137, 165, 167, 168, 194, 199, 204
- Dedekind-Peano axioms, 53, 68
- definite
- contentually, 100
 - extensionally vs. contentually, 100
- definite axiom system
- absolutely, 68
 - relatively, 68
- definite manifold, 11, 12, 13, 52, 54, 56, 60, 65, 70, 72, 76, 78, 79, 84, 86, 88, 89, 90, 107, 119, 120, 145, 146, 147, 154, 156, 161, 164, 188
- formally, 53, 69, 70, 121, 162
- formally and materially, 60, 69, 137
- materially, 66, 69
- definiteness, 6, 10, 11, 12, 13, 25, 39, 41, 61, 66, 67, 70, 72, 73, 85, 92, 121, 122, 136, 137, 139, 156, 158, 159, 164, *See also* completeness
- absolute and relative, 69
- extensional, 100, 102
- formal, 11, 55, 107
- formal and material, 55, 60, 65, 70, 121, 137, 155
- material, 12, 55, 68, 83, 85, 87, 101, 121, 122, 154
- of decision, 139, 140
- definition of equality, 44, 45
- Democritus, 104
- Dependence Claim, 162, 163, 167, 170, 172
- Descartes, René, 42, 82, 109, 116
- Dilthey, Wilhelm, 32, 33
- Dingler, Hugo, 75
- division of labor, 8, 10, 16, 24, 25, 26, 27, 28, 31, 36, 37, 38, 39, 50, 51, 52, 53, 116, 159
- Dodd, James, 23, 194
- Double Lecture, 11, 39, 60, 61, 62, 63, 68, 70, 72, 76, 78, 85, 123, 168
- Douglas, Heather, 189, 190, 194, 203
- Dreben, Burton, 11, 40, 194
- Drummond, John, 39, 86, 194, 195
- Dubislav, Walter, 75
- Dybjær, Peter, 124, 169, 195
- Ebbinghaus, Hans-Dieter, 36, 37, 94, 138, 195
- eidetic seeing, 83
- eidetic variation, 13, 82, 137, 145, 146, 147, 148, 156
- eidos, 80, 81, 82, 83, 87, 88
- Einführungsgemeinschaft*, 20, *See also* community of empathy
- Einstein, Albert, 73, 74, 75, 93
- Eley, Lothar, xiv, 138, 195
- embodiment, 113
- empathy, 32
- Enriques, Abramo Giulio Umberto Federigo, 75
- entanglement of logic and mathematics, 186
- epoché*, 9, 30, 184
- equivalence
- definition of, 10, 43, 46, 47, 52, 53, 55
- essence, 26, 75, 77, 79, 80, 81, 82, 83, 87, 90, 104, 115, 121
- exact, 86, 87, 88, 89, 145, 164
 - formal, 78
 - material, 78, 85, 90, 191
 - morphological, 86, 87, 88
 - morphological as opposed to exact, 86

- Euclid, 10, 11, 52, 54, 145
 Euclidean geometry, 69, 73
 Euclidean ideal, 73, 88, 119, 145, 146, 147, 188
 evidence
 apodictic, 42
 by “mere explication”, 119
 clear [klar], 51, 67, 92, 119, 126, 127, 128, 131, 133, 135, 158, 169, 170, 173, 182, 184, 188
 clear and distinct, 92, 125, 127, 128
 distinct [deutlich], 76, 87, 92, 105, 119, 123, 125, 126, 128, 130, 131, 132, 134, 158, 180, 182, 184
 further kinds, 14, 131, 134, 173
 mediate, 129
 of grammaticality, 118, 119
 originary, 125
 three kinds, 129, 130
 existence absolutism, 99, 100, 115
 existentialism, 8, 23
 extensions, theory of, 26, 179
- fallibility, 42, 127
 family resemblances, 142, 143, 144
 Farber, Marvin, 91, 93
 Feferman, Solomon, 96, 138, 195, 196
 Ferreira, José, 56, 60, 76, 101, 149, 195
 Fichte, Johann Gottlieb, 105, 109, 117
 Field, Hartry, 182, 195
 Fink, Eugen, 16, 139
 first philosophy
 in the sense of importance and universality, 3, 31, 38, 160, 188
 first-order logic, 71, 136, 143, 148, 149, 188, 202
 Føllesdal, Dagfinn, 34, 42, 50, 162, 193, 195
 formal conceptual approach to mathematics, 56
 formal mathematics, 4, 13, 52, 53, 55, 62, 63, 70, 72, 74, 78, 91, 100, 118, 119, 121, 122, 123, 125, 126, 127, 130, 134, 153, 159, 173, 182
 formalism, 98, 99, 109, 110, 111, 142
 foundationalism, 20, 42
 functional, 42
 moderate, 42
 strong, 42
 Fraenkel, Abraham Adolf, 36, 75, 195
 Frege, Gottlob, 3, 10, 27, 43, 44, 47, 48, 49, 50, 51, 52, 76, 98, 168, 181, 182, 192, 195, 196, 197, 199, 201, 202
 function of logic
 deductive, 175, 178, 179
 descriptive, 175, 178, 179
 functionaries of mankind, 7, 24
- Gabriel, Gottfried, 182, 196
 Galilei, Galileo, 16, 27, 137, 144, 145, 146, 147, 150, 151, 152, 153, 155, 156, 158
 Gassendi, Pierre, 104
- Geiger, Moritz, 94
Generalthesis, 29, 30, 166, 167
 Gentzen, Gerhard, 143
 Gibson, Boyce, 50, 196
 Giovannini, Eduardo, 54
 goal-sense, 4, 26, 41
 Gödel, Kurt, 12, 13, 71, 72, 136, 137, 138, 139, 140, 141, 142, 147, 149, 159, 194, 195, 196, 197, 199, 201, 205, 206
 Göttingen idea of preestablished harmony, 12, 73, 74, 75, 77, 78, 79, 87, 90, 150, 156
 Göttingen Mathematical Society, 11, 60
 grammar of pure logic, 70, 118
 Grassl, Wolfgang, 142, 196
 Grassmann, Hermann, 26, 44, 109, 110, 179
 Grelling, Kurt, 76
 Grimme, Adolf, 4
 group theory, 5, 26, 41
 Gutzmer, A., 60, 68, 196
- Haaparanta, Leila, 43, 195
 Hacking, Ian, 16, 196
 Hamilton, William Rowan, 26, 196
 Hankel, Hermann, 120, 196
 Hardy, Lee, 42, 196
 Hauser, Kai, 162, 197
 Heffernan, George, 8, 23, 42, 119, 156, 197, 198, 199
 Hegel, Georg Wilhelm Friedrich, 16, 109
 Heidegger, Martin, 88, 93, 94, 111, 194, 196
 Heinämaa, Sara, 8, 21, 24, 198
 Held, Klaus, 9, 40, 198
 Hellinger, Ernst, 76
 Helmer, Olaf, 107
 Hempel, Carl G., 139
 hermeneutic circle, 17
 hermeneutics, 17, 34
 Heymans, Gerard, 48
 Hilbert, David, 6, 10, 11, 13, 16, 24, 26, 27, 32, 36, 37, 38, 54, 56, 57, 58, 60, 68, 69, 72, 73, 74, 75, 76, 77, 78, 85, 91, 92, 93, 94, 95, 97, 98, 99, 100, 104, 105, 106, 108, 110, 111, 112, 115, 116, 117, 120, 121, 122, 129, 133, 135, 137, 138, 140, 141, 149, 158, 159, 193, 194, 195, 196, 198, 199, 201, 203, 204, 207
 Hilbert’s program, 13, 32, 57, 93, 97, 105, 117
 Hill, Claire Ortiz, 2, 6, 11, 50, 54, 73, 76, 91, 117, 195, 199
 Hintikka, Jaakko, 178, 199
 Hjortland, Ole Thomassen, 181, 199
 Höfler, Alois, 75
 Höpfner, Ernst, 11
 Hopp, Walter, 42, 198, 199
 horizon, 115, 151
 human sciences, 22, 32, 34, 156

- idealizing presuppositions, 7, 130
 ideation, 81, 83, 85, 86, 87, *See* eidetic variation
 Ierna, Carlo, 76, 78, 85, 199
 impredicativity, 96, 112
 Incompleteness Claim, 162, 167, 170
 incompleteness theorems, 12, 71, 136, 137, 138, 140, 141, 142, 147
 inexhaustibility of mathematics, 141, 148
infimae species, 83, 85
 insight, 10, 17, 25, 27, 36, 37, 39, 51, 52, 53, 83, 95, 102, 104, 105, 106, 108, 117, 118, 122, 187
 intentional explication, 4, 23, 35, 42, 113
 intentional history, 16, 41, 91, 113, 114, 118, 119, 134
 intentionality, 2, 16, 129, 134, 141
 intersubjectivity, 7, 23, 116, 118
 transcendental, 105
 intuition, 84, 86, 88, 90, 108, 120, 126
 eidetic, 87
 mathematical, 95
 mathematical basic, 104
 mathematical prime, 107
 of “extra-mathematical objects”, 105
 of concrete objects, 92
 of concrete signs, 112
 of essences, 104
 of extra-logical discrete objects, 98
 of objects, 126, 130
 of signs, 99
 of strokes, 92
 originary, 111
 sensory, 151
 intuitionism, 2, 27, 31, 66, 94, 102, 103, 109, 110, 111, 171, 174, *See also* Brouwer, Luitzen Egbertus Jan
 intuitionistic type theory, 66, 72, 124, 169, 170
 iron cage, 24
 iterative conception of set, 171, 172

 Jacobs, Hanne, 197
 Jansen, Julia, 90, 200
 Joseph, Helene, 95
 judgment-theory, 39, 63, 92, 101, 115, 117, 121, 122, 123, 124, 125, 126, 127, 133, 134, 135, 169, 170

 Kanamori, Akihiro, 11, 138, 194, 200
 Kant, Immanuel, xii, xiv, 2, 3, 7, 14, 17, 30, 40, 57, 76, 79, 88, 89, 90, 109, 115, 116, 164, 175, 176, 177, 178, 181, 183, 185, 188, 192, 193, 194, 197, 198, 199, 200, 203, 204, 207
 Kaufmann, Felix, 93, 94, 138, 139, 140, 144, 147, 200, 202
 Kennedy, Juliette, 138, 206
 Kerry, Benno, 48
 Kjosavik, Frode, 197
 Klein, Felix, 11, 26, 37, 73
 Klein, Jacob, 146
 Klev, Ansten, 124, 200
 Kolmogorov, Andrey, 66
 König, Robert, 76
 Königsberger, Leo, 1
 Koyré, Alexandre, 76, 146
 Kragh, Helge, 74, 200
 Kronecker, Leopold, 1, 56, 98
 Kuhn, Thomas S., 189, 200
 Kummer, Ernst Eduard, 56

 Ladyman, James, 146
 Landgrebe, Ludwig, xiii, 91
 law of contradiction, 133, 180
 law of the excluded middle, 102, 107, 112, 131, 133, 180
 Leibniz, Gottfried Wilhelm, 12, 44, 73, 74, 90, 93, 178, 183, 193, 205, 206
 Leibniz’s principle, 44
 Lie, Sophus, 26
 life-world, 4, 14, 40, 42, 146, 155, 156, 188, 190
 limit phenomena, 8
 Linnebo, Øystein, 59, 162, 167, 172, 188, 197, 200
 Lipps, Hans, 76
 logic
 first-order, 149, 188
 second-order, 71, 149, 188
 logic, Husserl’s conception of, 92, 123, 127, 175
 formal logic, 114, 175, 179, 185
 grammar, 83, 119, 123, 130
 idea of pure logic, 57, 58, 72
 logic of consequence, 101
 logic of noncontradiction, 119, 122, 123, 130, 179, 180
 logic of truth, 63, 101, 119, 122, 123, 130, 180, 182
 logical principles, 90, 131, 174, 178, 179, 180, 181, 182, 184, 185, 186, 188, 190
 logicism, 10, 27, 31, 38, 43, 44, 50, 52, 53, 142, 177
 Lohmar, Dieter, 53, 76, 78, 79, 85, 199, 200
 London, Fritz, 75
 Longino, Helen, 156, 190, 200
 Lorentz, Hendrik, 74
 Lotze, Rudolf Hermann, 81, 163, 168, 183, 200
 Löwenheim, Leopold, 136, 144, 148, 149, 165, 188, 201, 205
 Löwenheim-Skolem theorem, 136, 137, 144, 148, 149, 165, 188
 Luft, Sebastian, xiii, 9, 30, 91, 111, 201, 202

 Macarthur, David, 18, 22, 194
 Maddy, Penelope, 5, 7, 14, 17, 19, 20, 22, 26, 28, 31, 41, 159, 160, 165, 166, 201
 Mahnke, Dietrich, 32, 74, 92, 93, 111, 116, 117, 140, 148, 201
 Maier, Verena, 183, 201

- Majer, Ulrich, 54, 201
 Mancosu, Paolo, 71, 93, 94, 97, 99, 100, 101, 102,
 103, 104, 105, 106, 137, 138, 139, 141, 171,
 201, 202
 manifold, 55, 58, 59, 60
 Martin-Löf, Per, 66, 169, 202
 Marx, Karl, 16
 mathematical manifold, 12, 60, 65, 66, 67, 68, 69,
 83, 84, 86
 mathematicians' "living intentions", 31
 mathematics-first, 2, 3, 10, 14, 19, 27, 51, 94, 125,
 126, 134, 136, 159, 160, 161, 173
 mathematization, 16, 72, 79, 87, 146, 152, 153,
 154, 155
 indirect, 152, 153
mathesis universalis, 96, 121, 122, 123, 124, 125, 126,
 133, 178
 mechanistic explanation, 33
 Meinong, Alexius, 43
 metaphysical neutrality, 20, 22, 165
 method *See also Besinnung*
 axiomatic, 11, 64, 75, 104, 108, 133, 156, 158
 eidetic variation, 13
 formal and artificial, instead of
 philosophical, 10
 genetic, 11
 geometrical, 151
 historical, 17
 inferring, 177, 178
 naturalistic, 5, 17, 19, 22, 159, 201
 of proof, 174
 phenomenological, 3, 20, 177
 transcendental phenomenological
 reflection, 17
 Meyer, Adolf, 33, 202
 Miller, Philip J., 1, 50, 138, 202
 Minkowski, Hermann, 73, 74
modus ponens, 131, 180
 Mohanty, Jitendra, N., 50, 202
 Moore, G.E., 89
 Moore, Gregory, 37, 149, 196, 202
 Moran, Dermot, 4, 9, 23, 38, 137, 144, 146, 202
 Müller, Georg Elias, 10, 11

 Nagel, Ernst, 202
 Natorp, Paul, 74, 94
 natural attitude, 9, 19, 20, 22, 28, 29, 30, 31, 34, 38,
 39, 40, 42, 77, 79, 80, 111, 115, 116, 167
 algebraic, 29
 arithmetic, 19
 human scientific theoretical, 35
 natural scientific, 19
 natural theoretical, 40, 80
 naturalistic, 18, 29, 32
 nature-attitude, 18

 personalistic, 19, 29, 32
 practical, 19, 29
 theoretical, 8, 9, 19, 35
 unreflective, 29
 natural numbers, 5, 55, 63, 68, 69, 85, 100, 104, 131,
 136, 139, 143, 148, 168, 186
 naturalism, 3, 7, 18, 19, 20, 22, 28, 160
 in philosophy of science, 19
 liberal, 22
 mathematical, 5, 7, 9, 14, 17, 19
 metaphysical, 3, 19
 methodological, 3, 19
 nonreductive, 3, 19, 30
 Quinean, 19
 reductive, 18. *See also* scientific naturalism
 scientific, 18, 19
 Nelson, Leonard, 76, 117
 Nenon, Thomas, 21, 203
noema, 39, 40, 115, 171
noesis, 39, 171
 normal form, 12, 55, 67, 69, 124
 normalization, 55, 83, 124, 126, 169, 170
 normative framework, 88, 156, 159
 normative goals, 16, 35, 41, 114, 137, 160, 161, 173
 normative grid, 13, 88
 normative ideal, 13, 35, 42, 79, 148, 150, 153, 156,
 165, 180
 normative structure, 88, 147
 normativity, 7, 8, 13, 19, 24, 26, 79, 82, 83, 88, 89,
 90, 113, 114, 150, 164, 178, 180, 181, 182,
 184, 186
 ideal, constitutive, and prescriptive, 181
 of logic, 181, 182
 prescriptive, 90, 181, 185
 norms
 basic, 181
 epistemic, 114, 118
 of distinctness, 134
 rules, prescriptions, technical, 89
 universal, 114
 norms for being, 89, 90, 181
 norms for doing, 89, 90, 181

 Okada, Mitsuhiro, 54, 64, 67, 68, 69, 70, 197, 203
 one-to-one correspondence, 45, 46
 ontology
 formal, 78, 79, 90, 119, 164, 168, 179
 material, 12, 63, 77, 78, 79, 164
 ordinals
 theory of, 62
 transfinite, 141, 171
 original statement, 16. *See also Urstiftung*

 Padoa, Alessandro, 75
 Palmgren, Erik, 124, 169, 195

- paradoxes, 36, 39, 66, 72, 76, 78, 85, 96, 98, 101, 112, 129, 135, 185
 Burali-Forti paradox, 76
 liar's paradox, 76
 Russell's paradox, 76, 100
 set theoretical, 36, 97, 98, 141, 171
 Paris list of 23 mathematical problems, 27, 38
 Parsons, Charles, 67, 98, 119, 126, 127, 162, 165, 167, 168, 172, 176, 186, 203
 Peano arithmetic, 53
 Peano, Giuseppe, 75
 Peckhaus, Volker, 11, 43, 48, 73, 76, 195, 203
 Peirce, Charles Sanders, 113
 Peucker, Henning, 50, 203
 phenomenological attitude, 28, 30, 31, 39, 40, 77, 79, 80, 184
 philosophy-first
 as opposed to mathematics-first, 3, 31, 94, 111, 134, 160, 167
 in the sense of the most encompassing and important, 3
 philosophy-last-if-at-all, 3
 Plato, 163, 187
 Platonic idea, 60, 163, 164
 platonism, 2, 3, 14, 31, 59, 112, 161, 162, 163, 170, 171, 173
 pluralism, 14, 161, 173, 182, 186, 190
 about evidences, 188
 about logic, 14, 175, 182, 186
 about logical principles, 131, 184
 Poincaré, Henri, 96, 98, 107
 post-metaphysical objectivism, 166
 predicativity, 96, 112
 principle of all principles, 40
 psychologism, 10, 18, 40, 43, 44, 49, 50, 51, 52, 55, 57, 107, 117, 118, 148, 149, 155, 163, 176, 177
 psychology
 humanistic, 33
 natural-scientific, 33
 Pyenson, Lewis, 12, 74, 75, 204

 quaternions, theory of, 26
 Quine, Willard Van Orman, 19, 20, 40, 165, 169

 radicality, 7, 21, 163, 177, 185, 187
 rationality, 114, 147, 155, 181
 crisis of, 156
 European, 16
 ideal of, 12, 73, 85, 146, 147, 155
 modern, 24, 137, 150
 norm of, 88, 156, 158
 scientific, 16
 real numbers, 5, 11, 50, 60, 68, 69, 70, 97, 98, 136, 143, 148
 realism, 3

 constituted, 2, 3
 empirical, 3, 30
 perspectival, 124
 Platonic, 162
 pluralist, 182, 190
 structural, in science, 146
 Reck, Erich, 54, 192, 204
 reduction
 eidetic, 9, 28
 equational, 12, 67
 phenomenological, 9, 28, 29, 30, 34, 38, 177, 184
 syntactic, 66, 67
 transcendental, 9
 restatement, 16. *See also Wiederstiftung*
 revisionism, 19, 20, 130, 134, 160
 weak, 7, 20
 Riemann, Bernhard, 26, 54, 56, 120, 179
 Riese, Adam, 52
 Rosado Haddock, Guillermo E., 2, 50, 76, 101, 162, 170, 199, 201, 204, 207
 Rota, Gian-Carlo, 2, 41, 204
 Rougier, Louis, 75
 Russell, Bertrand, 76, 96, 98, 100, 101, 102, 168, 171
 Ryckman, Thomas, 201

 Saleski, Reinhold, 91
 Scheler, Max, 88, 89
 Schelling, Friedrich Wilhelm Joseph, 109
 Schiemer, Georg, 54
 Schlick Circle, 139
 Schlick, Moritz, 75
 Schmidt, Erhard, 96
 Schmit, Roger, 2, 138, 204
 Schoenflies, Arthur, 76
 Schröder, Ernst, 10, 149
 Schröder-Bernstein theorem, 10
 Schuhmann, Karl, xii, xiv, 4, 10, 60, 76, 93, 94, 95, 110, 139, 143, 144, 204
 Schur, Issai, 138
 second-personal understanding, 35
Selbst-Bestimmung, 35
 sense-investigation, 6, 20, 34, 35. *See Besinnung*
 Serck-Hanssen, Camilla, 79, 197, 204
 set theory, 5, 26, 36, 48, 56, 58, 76, 97, 98, 99, 101, 112, 115, 116, 131, 149, 165, 171, 172, 173, 179, 189, 202, 207
 Shapiro, Stewart, 3, 19, 59, 62, 149, 160, 164, 165, 188, 204
 Sher, Gila, 177, 185, 204
 Sieg, Wilfried, 133, 204
Sinn, 4, 21, 39, 115
 Skolem, Thoralf, 13, 72, 136, 142, 143, 144, 147, 148, 149, 150, 159, 188, 205

214

Smit, Houston, 79, 204
 Sokolowski, Robert, 9, 30, 80, 81, 86, 87, 126, 195, 205
 Solin, Kim, 39, 205
 sortal identity, 45, 169
 space-time, 73, 151
 Spranger, Eduard, 32, 33, 34, 205
 Staiti, Andrea, 1, 9, 19, 30, 31, 195, 205
 Stammler, Rudolf, 75
 Stern, Günther, 91
 Stolz, Otto, 44
 Strohal, Richard, 75
 structuralism, 2, 10, 12, 51, 53, 59, 67, 72, 127, 161, 162, 163, 167, 168, 169, 170, 171, 172, 173
 ante rem, 59, 164, 165, 173
 in re, 164, 172
 noneliminative, 161, 162, 164, 165
 Stumpf, Carl, 137
 supernatural entities, 7
 syllogistics, 43, 58, 109, 119, 130, 176, 178, 179

Taeger, Fritz, 91
 Tarski, Alfred, 71, 133, 207
 technization, 154
 teleology, 16, 19, 20, 23, 32, 33, 34, 41, 90, 106, 127, 134, 141, 182
 term-rewriting, 54, 55, 67, 70, 85, 122, 123, 168
 theory of manifolds, 26, 58, 59, 122, 153, 154, 162, 178, 179
 theory of pure forms, 118. *See* grammar of pure logic
 theory of theories, 26, 41, 54, 58, 62
 thin arealism, 165, 166
 thin realism, 165, 166
 Tieszen, Richard, 2, 3, 149, 150, 162, 205
 time-consciousness, 2, 23
Tractatus Logico-Philosophicus, 94, 142
 Tran-Duc-Thao, 122
 transcendental attitude, 9, 28, 38, 39, 41, 111, 115
 transcendental conditions of possibility, 6, 30
 transcendental dimension, 5, 20, 23, 32, 42
 transcendental ego, 3, 30
 transcendental idealism, 2, 3, 30, 40
 transcendental logic, 9, 10, 14, 22, 23, 39, 92, 114, 117, 119, 127, 128, 129, 130, 131, 134, 158, 159, 174, 175, 182, 183, 184, 185, 188
 transcendental point of view, 115. *See* transcendental dimension
 transcendental subjectivity, 23, 140, 160, 161, 174, 183, 185, 190
 transformation groups, theory of, 26

Index

transitional link, 122, 123, 125, 126, 133
 type
 as in type theory, 169
 as opposed to essence, 80, 81, 152
 as opposed to token, 113

Urstiftung, 16. *See also* original statement

values
 basic, 181
 epistemic, 156, 189
 love-values, 24
 personalistic, 24
 van Atten, Mark, 2, 20, 54, 111, 116, 138, 147, 160, 205, 206
 van Dalen, Dirk, 76, 95, 96, 194
 vicious circle principle, 96
 Vienna Circle, 138
 vitalism, 33
 von Wright, Georg Henrik, 89, 181, 206

Waismann, Friedrich, 13, 141, 142, 143, 144, 145, 146, 147, 148, 149, 157, 196, 206
 Warrain, Francis, 75
 Warrall, John, 146
 Weber, Max, 24
 Weierstrass, Karl, 1, 11, 56, 137
 Welton, Donn, 80, 198, 200, 206
 Weyl, Hermann, 38, 39, 75, 76, 91, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112, 115, 117, 120, 121, 124, 134, 135, 137, 194, 201, 206
 Weyl, Joachim, 107
Wiederstiftung, 16. *See also* restatement
 Wigner, E. P., 75, 206
 under Wundt
 Willard, Dallas, xii, xiv, 1, 50, 60, 206
 Wilsche, Harald A., 19, 147, 192, 197, 207
 Windelband, Wilhelm, 182, 194
 Wittgenstein, Ludwig, 3, 13, 39, 94, 142, 143, 144, 148, 205
 Woodruff Smith, David, 133, 178, 207
 Wundt, Wilhelm, 43

Zahavi, Dan, 7, 9, 16, 22, 30, 39, 83, 207
 Zermelo, Ernst, 36, 37, 38, 76, 91, 94, 97, 98, 101, 138, 141, 171, 173, 195, 200, 207
 Zermelo, Gertrud, 138
 Ziehen, Theodor, 43
Zwecksinn, 4. *See* goal-sense