

References

- Aristotle, *The Works of Aristotle Translated into English*, vol. viii, ed. W. D. Ross (12 vols., London, 1908–1952).
- , *Aristotle's Categories and de Interpretatione*, trans. J. L. Ackrill (Clarendon Aristotle Series), Oxford, 1963.
- Bar-Hillel, Y., ed., *Proceedings of the 1964 International Congress for Logic, Methodology and Philosophy of Science* (Amsterdam, 1965).
- , Poznanski, E., Rabin, M., and Robinson, A., eds., *Essays on the Foundations of Mathematics, Dedicated to A. A. Fraenkel on his Seventieth Anniversary* (Amsterdam, 1962).
- Bealer, G., ‘Predication and Matter’, *Synthese*, xxxi (1975), 493–508.
Reprinted in Pelletier.
- , ‘An Inconsistency in Functionalism’, *Synthese*, xxxviii (1978), 333–72.
- , ‘Theories of Properties, Relations, and Propositions’, *The Journal of Philosophy*, lxxvi (1979), 634–48.
- , ‘Foundations Without Sets’, *American Philosophical Quarterly*, xviii (1981), 347–53.
- , ‘Completeness in the Theory of Properties, Relations, and Propositions’, *The Journal of Symbolic Logic*, xlvi (1983), 415–26.
- Benacerraf, P., ‘What Numbers Could Not Be’, *The Philosophical Review*, lxxiv (1965), 47–73.
- , ‘Mathematical Truth’, *The Journal of Philosophy*, lxx (1973), 661–79.
- , and Putnam, H., eds., *Philosophy of Mathematics, Selected Readings* (Englewood Cliffs, 1964).
- Bennett, J., *Linguistic Behavior* (Cambridge, 1976).
- Black, M., ed., *Philosophy in America* (Ithaca, 1965).
- Block, N., ‘Troubles With Functionalism’, in Savage, 261–325.
- Boolos, G., ‘The Iterative Conception of Set’, *The Journal of Philosophy*, lxviii (1971), 215–31.
- Brentano, F., *Psychologie vom empirischen Standpunkt* (Vienna, 1874).
Translated in part as ‘The Distinction Between the Mental and Physical’ in Chisholm, *Realism and the Background of Phenomenology*.
- Burge, T., ‘Knowledge and Convention’, *The Philosophical Review*, lxxxiv (1975), 249–55.
- , ‘Belief and Synonymy’, *The Journal of Philosophy*, lxxv (1978), 119–38.
- , ‘Semantical Paradox’, *The Journal of Philosophy* lxxvi (1979), 169–98.

- , 'Individualism and the Mental', *Midwest Studies in Philosophy*, iv (1979), 73–122.
- Carnap, R., *Der logische Aufbau der Welt* (Berlin, 1928). Translated with additions as *The Logical Structure of the World and Pseudoproblems in Philosophy* (Berkeley, 1967).
- , *Logische Syntax der Sprache* (Vienna, 1934). Translated with additions as *The Logical Syntax of Language* (London, 1937). Paperback (Paterson, 1959).
- , *Meaning and Necessity* (Chicago, 1947).
- Chihara, C., *Ontology and the Vicious-Circle Principle* (Ithaca, 1973).
- Chisholm, R., ed., *Realism and the Background of Phenomenology* (Glencoe, 1960).
- , 'Intentionality', in Edwards, iv, 201–4.
- , and Sellars, W., see Sellars.
- Church, A., Review of Morton White's 'A Note on the "Paradox of Analysis"', Max Black's 'The "Paradox of Analysis" Again: a Reply', Morton White's 'Analysis and Identity: a Rejoinder', and Max Black's 'How Can Analysis Be Informative?', *The Journal of Symbolic Logic*, xi (1946), 132–3.
- , 'On Carnap's Analysis of Statements of Assertion and Belief', *Analysis*, x (1950), 97–9.
- , 'The Need for Abstract Entities in Semantic Analysis', *Proceedings of the American Academy of Arts and Sciences*, lxxx (1951), 100–12.
- , 'A Formulation of the Logic of Sense and Denotation', in Henle, Kallen, and Langer, 3–24.
- , 'Intensional Isomorphism and Identity of Belief', *Philosophical Studies*, v (1954), 65–73.
- , 'Outline of a Revised Formulation of the Logic of Sense and Denotation', in two parts, *Nous*, vii (1973), 24–33, and viii (1974), 135–56.
- , 'Comparison of Russell's Resolution of the Semantical Antinomies with that of Tarski', *The Journal of Symbolic Logic*, xli (1976), 747–60.
- Davidson, D., 'Theories of Meaning and Learnable Languages', in Bar-Hillel, *Proceedings of the 1964 International Congress for Logic, Methodology and Philosophy of Science*, 383–94.
- , 'Truth and Meaning', *Synthese*, xvii (1967), 304–23.
- , 'On Saying That', *Synthese*, xix (1968), 130–46.
- , 'Radical Interpretation', *Dialectica*, xxvii (1973), 313–28.
- , and Harman, G., eds., *Semantics of Natural Language* (Dordrecht, 1972).
- , and Harman, G., eds., *The Logic of Grammar* (Encino, 1975).
- Dold, A., and Eckmann, B., eds., *Proof Theory Symposium, Kiel 1974* (Lecture Notes in Mathematics, vol. 500), Berlin, 1975.
- Donnellan, K., 'Reference and Definite Descriptions', *The Philosophical Review*, lxxv (1966), 281–304.
- Dummett, M., *Elements of Intuitionism* (Oxford, 1977).
- Düring, I., and Owen, G. E. L., eds., *Aristotle and Plato in the Mid-Fourth Century* (Göteborg, 1960).

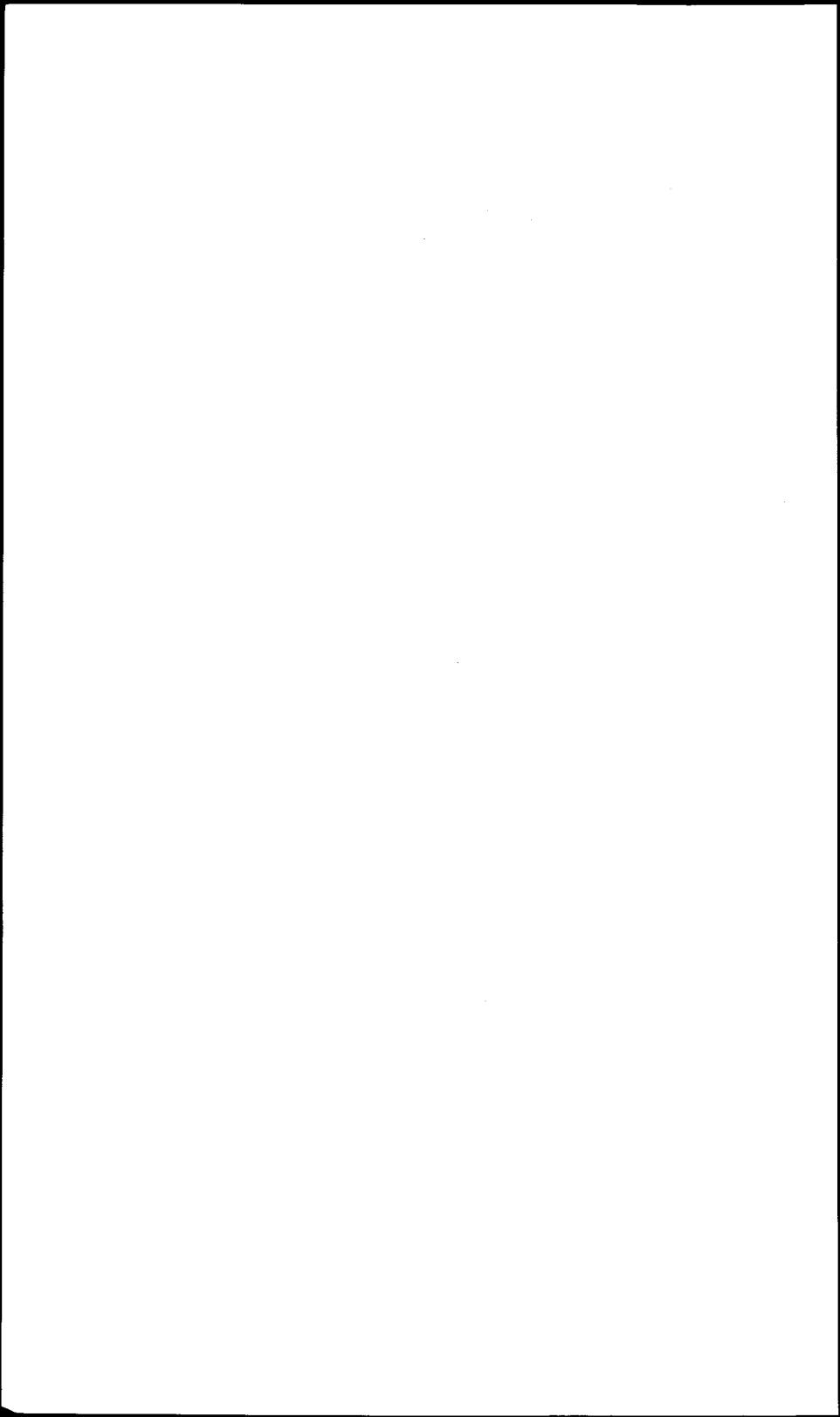
- Edwards, P., ed., *The Encyclopedia of Philosophy* (8 vols., New York, 1967).
- Enderton, H., *A Mathematical Introduction to Logic* (New York, 1972).
- Evans, G., and McDowell, J., eds., *Truth and Meaning: Essays in Semantics* (Oxford, 1976).
- Feferman, S., 'Non-Extensional Type-Free Theories of Partial Operations and Classifications', in Dold and Eckmann, 73–118.
- Feigl, H., and Sellars, W., eds., *Readings in Philosophical Analysis* (New York, 1949).
- , Scriven, M., and Maxwell, G., eds., *Concepts, Theories, and the Mind-Body Problem* (Minnesota Studies in the Philosophy of Science, vol. iv), Minneapolis, 1958.
- Fitch, F., 'The System CΔ of Combinatory Logic', *The Journal of Symbolic Logic*, xxviii (1963), 87–97.
- , 'A Consistent Combinatory Logic with an Inverse to Equality', *The Journal of Symbolic Logic*, xliv (1980), 529–43.
- Frege, G., *Die Grundlagen der Arithmetik* (Breslau, 1884). Reprinted with translation as *The Foundations of Arithmetic* (New York, 1950).
- , *Funktion und Begriff* (Jena, 1891). Translated as 'Function and Concept' in Frege, *Translations from the Philosophical Writings of Gottlob Frege*.
- , 'Über Begriff und Gegenstand', *Vierteljahrsschrift für wissenschaftliche Philosophie*, xvi (1892), 192–205. Translated as 'On Concept and Object' in Frege, *Philosophical Writings*.
- , 'Über Sinn und Bedeutung', *Zeitschrift für Philosophie und philosophische Kritik*, c (1892), 22–50. Translated as 'On Sense and Nomina-tum in Feigl and Sellars and as 'On Sense and Reference' in Frege, *Philosophical Writings*.
- , *Grundgesetze der Arithmetik* (2 vols., Jena, 1893, 1903). Translated in part as *The Basic Laws of Arithmetic* (Berkeley, 1967).
- , *Translations from the Philosophical Writings of Gottlob Frege*, eds. P. T. Geach and M. Black (Oxford, 1952).
- French, P., Uehling, T., and Wettstein, H., eds., *Contemporary Perspectives in the Philosophy of Language* (Minneapolis, 1979).
- Friedman, H., 'The Consistency of Classical Set Theory Relative to a Set Theory with Intuitionistic Logic', *The Journal of Symbolic Logic*, xxxviii (1973), 315–19.
- Gallin, D., *Intensional and Higher-Order Modal Logic* (Amsterdam, 1975).
- Gandy, R. O., 'On the Axiom of Extensionality', part II, *The Journal of Symbolic Logic*, xxiv (1959), 287–300.
- Geach, P. T., 'Intentional Identity', *The Journal of Philosophy*, lxiv (1967), 627–32.
- , *God and the Soul* (New York, 1969).
- , *Logic Matters* (Oxford, 1972).
- Gilmore, P. C., 'The Consistency of Partial Set Theory Without Extensionality', *Proceedings of Symposia in Pure Mathematics*, viii, part II (1974), 147–53.

- Gödel, K., 'Russell's Mathematical Logic', in Schilpp, 125–53. Reprinted in Benacerraf and Putnam.
- Goodman, N., *Fact, Fiction, and Forecast* (Cambridge, Mass., 1955).
- Grandy, R., 'Anadic Logic and English', *Synthese*, xxxii (1976), 395–402.
- Grice, H. P., 'Meaning', *The Philosophical Review*, lxvi (1957), 377–88.
- , 'Utterer's Meaning, Sentence Meaning, and Word Meaning', *Foundations of Language*, iii (1968), 225–42.
- , 'Utterer's Meaning and Intentions', *The Philosophical Review*, lxxviii (1969), 147–77.
- , 'Logic and Conversation' in Davidson and Harman, *The Logic of Grammar*, 64–74.
- , 'Definite Descriptions in Russell and in the Vernacular', unpublished.
- Gunderson, K., *Language, Mind, and Knowledge* (Minnesota Studies in the Philosophy of Science, vol. vii), Minneapolis, 1975.
- Halmos, P., *Naive Set Theory* (Princeton, 1960).
- Hamboerger, R., 'A Difficulty with the Frege-Russell Definition of Number', *The Journal of Philosophy*, lxxiv (1977), 409–14.
- Henkin, L., Monk, D., and Tarski, A., *Cylindric Algebras, Part I* (Amsterdam, 1971).
- Henle, P., Kallen, H. M., and Langer, S. K., eds., *Structure, Method, and Meaning: Essays in Honor of Henry M. Scheffer* (New York, 1951).
- Hintikka, J., *Models for Modalities* (Dordrecht, 1969).
- , Moravcsik, J., and Suppes, P., eds., *Approaches to Natural Language: Proceedings of the 1970 Stanford Workshop on Grammar and Semantics* (Dordrecht, 1973).
- Hume, David, *A Treatise of Human Nature*, ed. L. A. Selby-Bigge (Oxford, 1888).
- Inwagen, P. van, ed., *Time and Cause, Essays Presented to Richard Taylor*, to be published.
- Kant, Immanuel, *Critique of Pure Reason*, trans. N. K. Smith (New York, 1965).
- Kaplan, D., 'Quantifying In', *Synthese*, xix (1968–9), 178–214.
- , 'What Is Russell's Theory of Descriptions?', in Yourgrau and Breck, 277–88.
- , 'How to Russell a Frege-Church', *The Journal of Philosophy*, lxxii (1975), 716–29.
- , 'On the Logic of Demonstratives', in French, Uehling, and Wettstein, 401–14.
- Kelly, J., *General Topology* (New York, 1955).
- Kessler, G., 'Frege, Mill, and the Foundations of Arithmetic', *The Journal of Philosophy*, lxxvii (1980), 65–79.
- Klibansky, R., ed., *Contemporary Philosophy: A Survey* (Florence, 1968).
- Kripke, S., 'Naming and Necessity', in Davidson and Harman, *Semantics*, 253–355 and 763–9.
- , 'Outline of a Theory of Truth', *The Journal of Philosophy*, lxxii (1975), 690–716.
- , 'A Puzzle About Belief', in Margalit, 239–83.

- Lewis, D., *Convention* (Cambridge, Mass., 1969).
—, 'General Semantics', in Davidson and Harman, *Semantics* 169–218.
—, *Counterfactuals* (Cambridge, Mass., 1973).
Linsky, L., ed., *Semantics and the Philosophy of Language* (Urbana, 1952).
Locke, John, *An Essay Concerning Human Understanding*, vol. i, ed. A. C. Fraser (New York, 1959).
Marcus, R. B., 'Classes, Collections, and Individuals', *American Philosophical Quarterly*, xi (1974), 227–32.
Margalit, A., ed., *Meaning and Use, Papers Presented at the Second Jerusalem Philosophical Encounter* (Dordrecht, 1979).
Mates, B., 'Synonymity', *University of California Publications in Philosophy*, xxv (1950), 201–26. Reprinted in Linsky.
Montague, R., 'Pragmatics', in Klibansky, 95–118.
—, 'Universal Grammar', *Theoria*, xxxvi (1970), 373–98.
—, 'The Proper Treatment of Quantification in English', in Hintikka, Moravcsik, and Suppes, 221–42.
Myro, G., 'Aspects of Acceptability', *Pacific Philosophical Quarterly*, lxii (1981), 107–22.
Owen, G. E. L., 'Logic and Metaphysics in Some Early Works of Aristotle', in Düring and Owen, 163–90.
Parsons, C., 'Frege's Theory of Number', in Black, 180–203.
—, 'The Liar Paradox', *Journal of Philosophical Logic*, iii (1974), 381–412.
—, 'Intensional Logic in Extensional Language', *The Journal of Symbolic Logic*, xlvi (1982), 289–328.
Pelletier, F. J., ed., *Mass Terms* (Dordrecht, 1979).
Perry, J., 'Frege on Demonstratives', *The Philosophical Review*, lxxxvi (1977), 474–97.
—, 'The Problem of the Essential Indexical', *Noûs*, xiii (1979), 3–21.
Pitcher, G., ed., *Truth* (Englewood Cliffs, 1964).
Plato, *The Collected Dialogues of Plato*, eds. E. Hamilton and H. Cairns (Princeton, 1961).
Putnam, H., 'The Meaning of "Meaning"', in Gunderson, 131–91.
Quine, W. V. O., 'New Foundations for Mathematical Logic', *American Mathematical Monthly*, xlii (1937), 70–80. Reprinted with additions in Quine, *From a Logical Point of View*.
—, *Mathematical Logic* (New York, 1940). Revised edition (Cambridge, Mass., 1951).
—, 'Notes on the Theory of Reference', in Quine, *From a Logical Point of View*, 130–38.
—, *From a Logical Point of View* (New York, 1953).
—, 'Speaking of Objects', *Proceedings and Addresses of the American Philosophical Association*, xxxi (1958), 5–22.
—, *Word and Object* (Cambridge, Mass., 1960).
—, 'Variables Explained Away', *Proceedings of the American Philosophical Society*, civ (1960), 343–7. Reprinted in Quine, *Selected Logic Papers*.
—, *Set Theory and Its Logic* (Cambridge, Mass., 1963). Revised edition (Cambridge, Mass., 1969).

- , *Selected Logic Papers* (New York, 1966).
- , 'Ontological Relativity', *The Journal of Philosophy*, lxxv (1968), 185–212.
- , 'On the Reasons for the Indeterminacy of Translation', *The Journal of Philosophy*, lxvii (1970), 178–83.
- Russell, B., 'On Denoting', *Mind*, xiv (1905), 479–93. Reprinted in Russell, *Logic and Knowledge*.
- , 'Mathematical Logic as Based on the Theory of Types', *American Journal of Mathematics*, xxx (1908), 222–62. Reprinted in Russell, *Logic and Knowledge*.
- , 'Knowledge By Acquaintance and Knowledge By Description', *Proceedings of the Aristotelian Society*, new series, xi (1910–11), 108–28. Reprinted in Russell, *Mysticism and Logic*.
- , *The Problems of Philosophy* (London, 1912). Paperback (London, 1959).
- , *Mysticism and Logic, and Other Essays* (London, 1918).
- , 'The Philosophy of Logical Atomism', *The Monist*, xxviii (1918), 495–527. Reprinted with revisions in Russell, *Logic and Knowledge*.
- , *Logic and Knowledge*, ed. R. C. Marsh (London, 1956).
- , and Whitehead, A. N., see Whitehead.
- Savage, C. W., ed., *Perception and Cognition: Issues in the Foundations of Psychology* (Minnesota Studies in the Philosophy of Science, vol. ix), Minneapolis, 1978.
- Sellars, W., and Chisholm, R., 'Intentionality and the Mental', in Feigl, Scriven, and Maxwell, 507–39.
- Scheffler, I., 'An Inscriptional Approach to Indirect Discourse', *Analysis*, xiv (1954), 83–90.
- Schiffer, S., *Meaning* (Oxford, 1972).
- Schilpp, P., ed., *The Philosophy of Bertrand Russell* (The Library of Living Philosophers, vol. iii), New York, 1944.
- Scott, D., 'More on the Axiom of Extensionality', in Bar-Hillel, Poznanski, Rabin, and Robinson, 115–31.
- Shoemaker, S., 'Causality and Properties', to appear in van Inwagen.
- Steiner, M., *Mathematical Knowledge* (Ithaca, 1975).
- Strawson, P. F., 'On Referring', *Mind*, lix (1950), 320–44.
- , *Individuals* (London, 1959).
- Tarski, A., 'Les fondements de la géométrie des corps', *Księga Pamiątkowa Pierwszego Polskiego Zjazdu Matematycznego*, supplement to *Annales de la Société Polonaise de Mathématique* (Kraków, 1929), 29–33. Translated with additions in Tarski, *Logic, Semantics, Metamathematics*.
- , 'The Semantic Conception of Truth and the Foundations of Semantics', *Philosophy and Phenomenological Research*, iv (1944), 341–76. Reprinted in Linsky.
- , *Logic, Semantics, Metamathematics*, trans. J. H. Woodger (Oxford, 1956).
- van Inwagen, P., see Inwagen.

- Vermazen, B., 'Semantics and Semantics', *Foundations of Language*, vii (1971), 539-55.
- Whitehead, A. N., and Russell, B., *Principia Mathematica*, vol. 1 (Cambridge, 1910).
- Wittgenstein, L., *Tractatus Logico-Philosophicus* (London, 1922). English translation by C. K. Ogden of the German text of *Logisch-philosophische Abhandlung*. Republished with a new translation by D. F. Pears and B. F. McGuiness (London, 1961).
- Yourgrau, W. and Breck, A. D., eds., *Physics, Logic and History: Proceedings of the 1966 Denver International Colloquium* (New York, 1970).



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