

Philosophy of Science Comprehensive Exam Reading List

- Ayer, A., ed. *Logical Positivism*. New York: The Free Press, 1959. [selection:]
Hempel, Carl. "The Empiricist Criterion of Meaning." 108-132.
- Chalmers, A. F. *What is This Thing Called Science?* St. Lucia, Qld.: University of Queensland Press, 1987.
- Feyerabend, Paul. *Against Method: Outline of an Anarchistic Theory of Knowledge*. London: New Left Books, 1974.
- Gómez, R. "Filósofos Modernos de la Ciencia." *Crítica México* 8.23 (1976). [English Summary]
- Hacking, Ian, ed. *Scientific Revolutions*. Oxford: Oxford University Press, 1981. [selections:]
Putnam, Hilary. "The 'Corroboration' of Theories." 60-79.
Lakatos, Imre. "History of Science and Its Rational Reconstructions." 107-127.
Laudan, Larry. "A Problem-Solving Approach to Scientific Progress." 144-155.
Feyerabend, Paul. "How to Defend Society Against Science." 156-167.
- Hempel, Carl. *Philosophy of Natural Science*. Englewood Cliffs, N. J.: Prentice Hall, 1966.
- Klemke, E. D., Robert Hollinger, and A. D. Kline, eds. *Introductory Readings in the Philosophy of Science*. Buffalo, NY: Prometheus Books, 1988. [selections:]
Ziman, John. "What is Science?" 35-54.
Carnap, Rudolf. "The Nature of Theories." 162-177.
Frank, Philipp. "The Variety of Reasons for the Acceptance of Scientific Theories." 210-219.
Kuhn, Thomas. "Objectivity, Value Judgment, and Theory." 277-291.
Hempel, Carl. "Science and Human Values." 334-348.
- Kuhn, Thomas. *The Structure of Scientific Revolutions*. Chicago: The University of Chicago Press, 1972.
- Morgenbesser, Sidney., ed. *Philosophy of Science Today*. New York: Basic Books, 1967. [selections:]
Hempel, Carl. "Scientific Explanation." 78-89.
Hanson, N. "Observation and Interpretation." 89-100.
- Nagel, Ernest. *The Structure of Science*. New York: Harcourt, Brace and World, 1961. [Ch. 4, pp. 47-78]
- Popper, Karl. "Science: Conjectures and Refutations." *Conjectures and Refutations: The Growth of Scientific Knowledge*. New York: Harper, 1965. 33-65.
---. "Three Views Concerning Human Knowledge." *Ibid.* 97-119.
---. "The Aim of Science." *Objective Knowledge*. Cambridge: Cambridge University Press.
- Rothbart, Daniel, ed. *Science, Reason and Reality. Issues in the Philosophy of Science*. Forth Worth, Tex.: Harcourt Brace College Publishers, 1998. [selection:]
Putnam, H. "What Theories are Not?" 96-100.
- Schick, Theodore, ed. *Readings in the Philosophy of Science: From Positivism to Postmodernism*. Mountain View, CA: Mayfield, 2000. [selections:]
Kuhn, Thomas. "Logic of Discovery or Psychology of Research." 13-19.
Lakatos, Imre. "Falsification and the Methodology of Scientific Research Programs." 20-25.
Duhem, Pierre. "Physical Theory and Experiment." 53-56.
Van Fraassen, Bas. "The Pragmatics of Explanation." 87-89.
Kitcher, Philip. "Explanatory Unification." 89-98.
Carnap, Rudolf. "The Methodological Character of Theoretical Concepts." 166-167.
Latour, Bruno and Steve Woolgar. "The Social Construction of Scientific Facts." 201-207.
Cole, Stephen. "Voodoo Sociology: Recent Developments in the Sociology of Science." 208-217.