

## HIGH LEVEL EXPLANATION BACKGROUND

Students should not engage in indiscriminate reading of miscellaneous books.

– Battista Guarino, *A Program of Teaching and Learning* (1459)

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### *Explanation*

Hempel, C. and P. Oppenheim, 1948. Studies in the logic of explanation. *Philosophy of Science* 15:135–75. Reprinted in *Aspects of Scientific Explanation*, chap. 10. Free Press, New York.

Salmon, W., *Four Decades of Scientific Explanation*, University of Minnesota Press, Minneapolis, 1990. Originally published in Kitcher, P. and W. Salmon (eds.), *Scientific Explanation*, volume 13 of *Minnesota Studies in the Philosophy of Science*, University of Minnesota Press, Minneapolis, 1989.

Two anthologies of classic and (fairly) modern papers: Pitt, J. C., *Theories of Explanation*, Oxford University Press, Oxford, 1988; Ruben, D.-H., *Explanation*, Oxford University Press, Oxford, 1993.

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### *Reduction*

Nagel, E., *The Structure of Science*, Hackett, Indianapolis, IN, 1979, chapter 11.

Kemeny, J. G. and P. Oppenheim, On reduction, *Philosophical Studies* 7:6–19, 1956 (eliminativist version).

Oppenheim, P. and H. Putnam, Unity of science as a working hypothesis, in H. Feigl, M. Scriven, and G. Maxwell (eds.), *Concepts, Theories, and the Mind-Body Problem*, volume 2 of *Minnesota Studies in the Philosophy of Science*, University of Minnesota Press, Minneapolis, 1958, up to p. 16 (layer cake).

Dupré, J., Natural kinds and biological taxa, *Philosophical Review* 90:66–90, 1981 (antireductionism). Also Dupré (1993), below.

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## *Metaphysics of Disunity*

Fodor, J., Special sciences, *Synthese* 28:97–115, 1975.

Cartwright, N., *The Dappled World: A Study of the Boundaries of Science*, Cambridge University Press, Cambridge, 1999 (disunified universe).

Dupré, J., *The Disorder of Things*, Harvard University Press, Cambridge, MA, 1993.