Determinism and Causation

Determinism

A. Defining determinism

Popper, *The Open Universe: An Argument for Indeterminism*, Ch. 2 ("Scientific Determinism").


B. Determinism in classical and classical relativistic physics

Earman, "Determinism: What We Have Learned and What We Still Don't Know," on the Determinism and Freedom Philosophy Website, http://www.ucl.ac.uk/~uctytho/dfwIntroIndex.htm


C. Determinism in QM

Barrett, *The Quantum Mechanics of Minds and Worlds*, Ch. 5 ("Selecting a Branch" (Bohm’s interpretation of QM)).

D. Determinism in biology.


Causation

A. Overview

Sosa and Tooley (eds.), *Causation*, "Introduction."

B. Russell’s anti-realism about causation


C. Humean and neo-Humean accounts

Hume, *An Inquiry Concerning Human Understanding*, Sec. VII. ("Of the Idea of Necessary Connection").

Mill, *A System of Logic*, Bk. III, Ch. 5 ("Of the law of universal causality").
Hausman, *Causal Asymmetries*, Ch. 3 (“Causation, Regularities, and Time: Hume’s Theory”).
Hall, “Regularity Accounts,” pre-print.

D. *Causation and counterfactuals: dependence and influence*
Dowe, “Is Causation Influence?” pre-print
Hall, “Two Concepts of Causation,” pre-print.

E. *Causation and transference*
Dowe, *Physical Causation*,

F. *Causation and manipulation/intervention/agency*
Hausman, *Causal Asymmetries*, Ch. 5 (“Agency theory”).

G. *Causation and stable capacities*

H. *Causal logic*

I. *Probabilistic causation*
Hitchcock, “The Mishap at Reichenbach Fall: Singular and General Causation,”
Eells, *Probabilistic Causality*.

J. *The common cause principle*
   Reichenbach, *The Direction of Time*, Sec.

K. *The direction of causation*
   Hausman, *Causal Asymmetries*.

L. *Causal modeling and Bayesian networks*
   Spohn, "Bayesian Nets Are All There Is To Causal Dependence,"
Websites

Branden Fitelson’s site http://philosophy.wisc.edu/fitelson/269/syllabus.htm has an extensive bibliography and reprints of various articles on causation.

Ted Honderich’s site “The Freedom and Determinism Philosophy Website” http://www.ucl.ac.uk/~uctytho/dfwIntroIndex.htm has relevant material on determinism.

The Stanford Encyclopedia of Philosophy http://plato.stanford.edu/ has a number of good up-to-date survey articles on causation.

Books


Hausman, Causal Asymmetries. Cambridge University Press, 1998. As the title indicates, it is concerned mainly with the asymmetry between cause and effect.

Psillos, Causation and Explanation. Acumen, 2002. Argues that explanatory relations are primary and that causal relations follow from explanatory relations.

Two different approaches to the causal modeling program are to be found in Pearl, Causality: Models, Reasoning, and Inference (Cambridge University Press, 2000) and Spited, Glymour, and Scheines, Causation, Prediction, and Search (Springer-Verlag, 1993).