

PH123: Elements of Scientific Method

[View Online](#)

[1]

Godfrey-Smith, Peter, Theory and reality: an introduction to the philosophy of science, vol. Science and its conceptual foundations. Chicago: University of Chicago Press, 2003.

[2]

Godfrey-Smith, Peter, Theory and reality: an introduction to the philosophy of science, vol. Science and its conceptual foundations. Chicago: University of Chicago Press, 2003

[Online]. Available:

<https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://idp.warwick.ac.uk/idp/shibboleth&dest=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9780226300610>

[3]

Ladyman, James, Understanding philosophy of science. London: Routledge, 2002.

[4]

Ladyman, James, Understanding philosophy of science. London: Routledge, 2002 [Online]. Available:

<http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth>

[5]

Godfrey-Smith, Peter, Theory and reality: an introduction to the philosophy of science, vol. Science and its conceptual foundations. Chicago: University of Chicago Press, 2003.

[6]

Godfrey-Smith, Peter, Theory and reality: an introduction to the philosophy of science, vol. Science and its conceptual foundations. Chicago: University of Chicago Press, 2003 [Online]. Available: <https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://idp.warwick.ac.uk/idp/shibboleth&dest=http://www.dawsonera.com/abstract/9780226300610>

[7]

T. S. Kuhn, 'The Nature and Necessity of Scientific Revolutions', in The structure of scientific revolutions, Fourth edition., Chicago: The University of Chicago Press, 2012, pp. 92-110 [Online]. Available: <https://contentstore.cla.co.uk/secure/link?id=7b5645f5-a743-e611-80bd-0cc47a6bddeb>

[8]

Ladyman, James, Understanding philosophy of science. London: Routledge, 2002.

[9]

Ladyman, James, Understanding philosophy of science. London: Routledge, 2002 [Online]. Available: <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth>

[10]

L. Laudan, 'Demystifying Underdetermination', in Philosophy of science: the central issues, 1st ed., New York: W.W. Norton, 1998, pp. 320-353 [Online]. Available: <https://contentstore.cla.co.uk/secure/link?id=c3067e34-a943-e611-80bd-0cc47a6bddeb>

[11]

Lipton, Peter, Inference to the best explanation, 2nd ed., vol. International library of philosophy. London: Routledge/Taylor and Francis Group, 2004.

[12]

Popper, Karl R., *The logic of scientific discovery*, vol. Routledge classics. London: Routledge, 2002 [Online]. Available:
<http://lib.myilibrary.com/browse/open.asp?id=23930&entityid=https://idp.warwick.ac.uk/idp/shibboleth>

[13]

K. Popper, 'The Problem of Induction', in *The logic of scientific discovery*, London: Routledge, 2002, pp. 3–10 [Online]. Available:
<https://contentstore.cla.co.uk/secure/link?id=9b483484-c143-e611-80bd-0cc47a6bddeb>

[14]

K. Popper, 'Conjectures and Refutations', in *Conjectures and refutations: the growth of scientific knowledge*, vol. Routledge classics, London: Routledge, 2002, pp. 43–51 [Online]. Available:
<https://contentstore.cla.co.uk/secure/link?id=14e00f7e-c143-e611-80bd-0cc47a6bddeb>

[15]

W. V. Quine, 'Two Dogmas of Empiricism', in *From a logical point of view: 9 logico-philosophical essays*, 2d ed., Rev., Cambridge, Mass: Harvard University Press, 1963, pp. 20–46 [Online]. Available:
<https://contentstore.cla.co.uk/secure/link?id=c800855f-c343-e611-80bd-0cc47a6bddeb>

[16]

Lipton, Peter, *Inference to the best explanation*, 2nd ed., vol. International library of philosophy. London: Routledge/Taylor and Francis Group, 2004.

[17]

Godfrey-Smith, Peter, *Theory and reality: an introduction to the philosophy of science*, vol. Science and its conceptual foundations. Chicago: University of Chicago Press, 2003.

[18]

Godfrey-Smith, Peter, *Theory and reality: an introduction to the philosophy of science*, vol. Science and its conceptual foundations. Chicago: University of Chicago Press, 2003 [Online]. Available:
<https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://idp.warwick.ac.uk/>

idp/shibboleth&dest=http://www.dawsonera.com/abstract/9780226300610

[19]

Ladyman, James, Understanding philosophy of science. London: Routledge, 2002.

[20]

Ladyman, James, Understanding philosophy of science. London: Routledge, 2002 [Online]. Available: <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth>

[21]

Goodman, Nelson, Fact, fiction, and forecast, 3rd ed. Indianapolis: Bobbs-Merrill.

[22]

J. Vickers, 'The Problem of Induction (Stanford Encyclopedia of Philosophy)'. [Online]. Available: <http://plato.stanford.edu/entries/induction-problem/>

[23]

K. Popper, 'Conjectures and Refutations', in Conjectures and refutations: the growth of scientific knowledge, vol. Routledge classics, London: Routledge, 2002, pp. 43-51 [Online]. Available: <https://contentstore.cla.co.uk/secure/link?id=14e00f7e-c143-e611-80bd-0cc47a6bddeb>

[24]

K. Popper, 'The Problem of Induction', in The logic of scientific discovery, London: Routledge, 2002, pp. 3-10 [Online]. Available: <https://contentstore.cla.co.uk/secure/link?id=9b483484-c143-e611-80bd-0cc47a6bddeb>

[25]

Popper, Karl R., The logic of scientific discovery, vol. Routledge classics. London:

Routledge, 2002 [Online]. Available:

<http://lib.myilibrary.com/browse/open.asp?id=23930&entityid=https://idp.warwick.ac.uk/idp/shibboleth>

[26]

Newton-Smith, W., *The rationality of science*, vol. International library of philosophy. Boston, Mass: Routledge & Kegan Paul, 1981.

[27]

Ladyman, James, *Understanding philosophy of science*. London: Routledge, 2002.

[28]

Ladyman, James, *Understanding philosophy of science*. London: Routledge, 2002 [Online]. Available:
<http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth>

[29]

P. Godfrey-Smith, 'Popper's Philosophy of Science: Looking Ahead', 2007 [Online]. Available: <http://petergodfreysmith.com/science-me>

[30]

S. O. Hansson, 'Science and Pseudo-Science (Stanford Encyclopedia of Philosophy)'. [Online]. Available: <http://plato.stanford.edu/entries/pseudo-science/>

[31]

I. Lakatos, 'Science and Pseudoscience', 1973 [Online]. Available:
<http://www.lse.ac.uk/philosophy/About/lakatos/scienceandpseudoscience.aspx>

[32]

Paul R. Thagard, 'Why Astrology is a Pseudoscience', PSA: Proceedings of the Biennial

Meeting of the Philosophy of Science Association, vol. 1978, pp. 223–234, 1978 [Online]. Available: <http://0-www.jstor.org.pugwash.lib.warwick.ac.uk/stable/192639>

[33]

Gerald Holton, 'Science, Technology, & Human Values', vol. 7, no. 40 [Online]. Available: <http://0-www.jstor.org.pugwash.lib.warwick.ac.uk/stable/i227969>

[34]

T. S. Kuhn, 'The Nature and Necessity of Scientific Revolutions', in *The structure of scientific revolutions*, Fourth edition., Chicago: The University of Chicago Press, 2012, pp. 92–110 [Online]. Available: <https://contentstore.cla.co.uk/secure/link?id=7b5645f5-a743-e611-80bd-0cc47a6bddeb>

[35]

Godfrey-Smith, Peter, *Theory and reality: an introduction to the philosophy of science*, vol. Science and its conceptual foundations. Chicago: University of Chicago Press, 2003.

[36]

Godfrey-Smith, Peter, *Theory and reality: an introduction to the philosophy of science*, vol. Science and its conceptual foundations. Chicago: University of Chicago Press, 2003 [Online]. Available: <https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://idp.warwick.ac.uk/idp/shibboleth&dest=http://www.dawsonera.com/abstract/9780226300610>

[37]

Ladyman, James, *Understanding philosophy of science*. London: Routledge, 2002.

[38]

Ladyman, James, *Understanding philosophy of science*. London: Routledge, 2002 [Online]. Available: <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth>

[39]

Newton-Smith, W., *The rationality of science*, vol. International library of philosophy. Boston, Mass: Routledge & Kegan Paul, 1981.

[40]

T. Nickles, 'Scientific Revolutions (Stanford Encyclopedia of Philosophy)'. [Online]. Available: <http://plato.stanford.edu/entries/scientific-revolutions/>

[41]

E. Oberheim and P. Hoyningen-Huene, 'The Incommensurability of Scientific Theories (Stanford Encyclopedia of Philosophy)'. [Online]. Available: <http://plato.stanford.edu/entries/incommensurability/>

[42]

J. Worrall, 'Structural Realism: The Best of Both Worlds', *Dialectica*, vol. 43, no. 1/2, pp. 99–124, 1989 [Online]. Available: <http://0-www.jstor.org.pugwash.lib.warwick.ac.uk/stable/42970613>

[43]

Jackson, Frank and Smith, Michael, *The Oxford handbook of contemporary philosophy*, vol. Oxford handbooks. Oxford: Oxford University Press, 2005.

[44]

Ladyman, James, *Understanding philosophy of science*. London: Routledge, 2002.

[45]

Ladyman, James, *Understanding philosophy of science*. London: Routledge, 2002 [Online]. Available: <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth>

[46]

Bird, Alexander, *Philosophy of science*, vol. *Fundamentals of philosophy*. London: UCL Press, 1998.

[47]

K. Stanford, 'Underdetermination of Scientific Theory (Stanford Encyclopedia of Philosophy)'. [Online]. Available: <http://plato.stanford.edu/entries/scientific-underdetermination/>

[48]

R. Boyd, 'Scientific Realism (Stanford Encyclopedia of Philosophy)'. [Online]. Available: <http://plato.stanford.edu/entries/scientific-realism/>

[49]

J. Ladyman, 'Structural Realism (Stanford Encyclopedia of Philosophy)'. [Online]. Available: <http://plato.stanford.edu/entries/structural-realism/>

[50]

Van Fraassen, Bas C., *The scientific image*, vol. *Clarendon library of logic and philosophy*. Oxford: Clarendon, 1980 [Online]. Available: <http://0-www.oxfordscholarship.com.pugwash.lib.warwick.ac.uk/view/10.1093/0198244274.001.0001/acprof-9780198244271-chapter-2>

[51]

L. Laudan, 'Demystifying Underdetermination', in *Philosophy of science: the central issues*, 1st ed., New York: W.W. Norton, 1998, pp. 320–353 [Online]. Available: <https://contentstore.cla.co.uk/secure/link?id=c3067e34-a943-e611-80bd-0cc47a6bddeb>

[52]

H. Feigl and G. Maxwell, *Scientific explanation, space, and time*, vol. *Minnesota studies in*

the philosophy of science. Minneapolis: Univ. of Minnesota Press, 1962.

[53]

Eddington, Arthur Stanley, The nature of the physical world, vol. Everyman's library.
London: J.M. Dent & Sons, 1935.