

PH123: Elements of Scientific Method

[View Online](#)

@book{Bird, Alexander_1998, address={London}, title={Philosophy of science}, volume={Fundamentals of philosophy}, publisher={UCL Press}, author={Bird, Alexander}, year={1998} }

@misc{Boyd, title={Scientific Realism (Stanford Encyclopedia of Philosophy)}, url={http://plato.stanford.edu/entries/scientific-realism/}, author={Boyd, Richard} }

@book{Eddington, Arthur Stanley_1935, address={London}, title={The nature of the physical world}, volume={Everyman's library}, publisher={J.M. Dent & Sons}, author={Eddington, Arthur Stanley}, year={1935} }

@book{Feigl_Maxwell_1962, address={Minneapolis}, title={Scientific explanation, space, and time}, volume={Minnesota studies in the philosophy of science}, publisher={Univ. of Minnesota Press}, author={Feigl, Herbert and Maxwell, Grover}, year={1962} }

@article{Gerald Holton, title={Science, Technology, & Human Values}, volume={7}, url={http://0-www.jstor.org.pugwash.lib.warwick.ac.uk/stable/i227969}, number={40}, publisher={Sage Publications, Inc.}, author={Gerald Holton} }

@book{Godfrey-Smith, Peter_2003a, address={Chicago}, title={Theory and reality: an introduction to the philosophy of science}, volume={Science and its conceptual foundations}, publisher={University of Chicago Press}, author={Godfrey-Smith, Peter}, year={2003} }

@book{Godfrey-Smith, Peter_2003b, address={Chicago}, title={Theory and reality: an introduction to the philosophy of science}, volume={Science and its conceptual foundations}, url={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}, publisher={University of Chicago Press}, author={Godfrey-Smith, Peter}, year={2003} }

@book{Godfrey-Smith, Peter_2003c, address={Chicago}, title={Theory and reality: an introduction to the philosophy of science}, volume={Science and its conceptual foundations}, publisher={University of Chicago Press}, author={Godfrey-Smith, Peter}, year={2003} }

@book{Godfrey-Smith, Peter_2003d, address={Chicago}, title={Theory and reality: an introduction to the philosophy of science}, volume={Science and its conceptual foundations}, url={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}

ac.uk/idp/shibboleth&dest=http://www.dawsonera.com/abstract/9780226300610},
 publisher={University of Chicago Press}, author={Godfrey-Smith, Peter}, year={2003} }

@book{Godfrey-Smith, Peter_2003e, address={Chicago}, title={Theory and reality: an introduction to the philosophy of science}, volume={Science and its conceptual foundations}, publisher={University of Chicago Press}, author={Godfrey-Smith, Peter}, year={2003} }

@book{Godfrey-Smith, Peter_2003f, address={Chicago}, title={Theory and reality: an introduction to the philosophy of science}, volume={Science and its conceptual foundations},
 url={https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://idp.warwick.ac.uk/idp/shibboleth&dest=http://www.dawsonera.com/abstract/9780226300610},
 publisher={University of Chicago Press}, author={Godfrey-Smith, Peter}, year={2003} }

@book{Godfrey-Smith, Peter_2003g, address={Chicago}, title={Theory and reality: an introduction to the philosophy of science}, volume={Science and its conceptual foundations}, publisher={University of Chicago Press}, author={Godfrey-Smith, Peter}, year={2003} }

@book{Godfrey-Smith, Peter_2003h, address={Chicago}, title={Theory and reality: an introduction to the philosophy of science}, volume={Science and its conceptual foundations},
 url={https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://idp.warwick.ac.uk/idp/shibboleth&dest=http://www.dawsonera.com/abstract/9780226300610},
 publisher={University of Chicago Press}, author={Godfrey-Smith, Peter}, year={2003} }

@article{Godfrey-Smith_2007, title={Popper's Philosophy of Science: Looking Ahead},
 url={http://petergodfreysmith.com/science-me}, author={Godfrey-Smith, Peter}, year={2007} }

@book{Goodman, Nelson, address={Indianapolis}, edition={3rd ed}, title={Fact, fiction, and forecast}, publisher={Bobbs-Merrill}, author={Goodman, Nelson} }

@misc{Hansson, title={Science and Pseudo-Science (Stanford Encyclopedia of Philosophy)}, url={http://plato.stanford.edu/entries/pseudo-science/}, author={Hansson, Sven Ove} }

@book{Jackson, Frank_Smith, Michael_2005, address={Oxford}, title={The Oxford handbook of contemporary philosophy}, volume={Oxford handbooks}, publisher={Oxford University Press}, author={Jackson, Frank and Smith, Michael}, year={2005} }

@inbook{Kuhn_2012a, address={Chicago}, edition={Fourth edition}, title={The Nature and Necessity of Scientific Revolutions},
 url={https://contentstore.cla.co.uk/secure/link?id=7b5645f5-a743-e611-80bd-0cc47a6bdd eb}, booktitle={The structure of scientific revolutions}, publisher={The University of Chicago Press}, author={Kuhn, T. S.}, year={2012}, pages={92-110} }

@inbook{Kuhn_2012b, address={Chicago}, edition={Fourth edition}, title={The Nature

and Necessity of Scientific Revolutions},

url={ <https://contentstore.cla.co.uk/secure/link?id=7b5645f5-a743-e611-80bd-0cc47a6bddeb> }, booktitle={The structure of scientific revolutions}, publisher={The University of Chicago Press}, author={Kuhn, T. S.}, year={2012}, pages={92-110} }

@book{Ladyman, James_2002a, address={London}, title={Understanding philosophy of science}, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002b, address={London}, title={Understanding philosophy of science},
url={ <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth> }, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002c, address={London}, title={Understanding philosophy of science}, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002d, address={London}, title={Understanding philosophy of science},
url={ <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth> }, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002e, address={London}, title={Understanding philosophy of science}, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002f, address={London}, title={Understanding philosophy of science},
url={ <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth> }, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002g, address={London}, title={Understanding philosophy of science}, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002h, address={London}, title={Understanding philosophy of science},
url={ <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth> }, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002i, address={London}, title={Understanding philosophy of science}, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002j, address={London}, title={Understanding philosophy of science},
url={ <http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth> }, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002k, address={London}, title={Understanding philosophy of science}, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@book{Ladyman, James_2002l, address={London}, title={Understanding philosophy of science},
url={http://lib.myilibrary.com/browse/open.asp?id=277859&entityid=https://idp.warwick.ac.uk/idp/shibboleth}, publisher={Routledge}, author={Ladyman, James}, year={2002} }

@misc{Ladyman, title={Structural Realism (Stanford Encyclopedia of Philosophy)},
url={http://plato.stanford.edu/entries/structural-realism/}, author={Ladyman, James} }

@article{Lakatos_1973, title={Science and Pseudoscience},
url={http://www.lse.ac.uk/philosophy/About/lakatos/scienceandpseudoscience.aspx},
author={Lakatos, Imre}, year={1973} }

@inbook{Laudan_1998a, address={New York}, edition={1st ed}, title={Demystifying Underdetermination},
url={https://contentstore.cla.co.uk/secure/link?id=c3067e34-a943-e611-80bd-0cc47a6bdd eb}, booktitle={Philosophy of science: the central issues}, publisher={W.W. Norton},
author={Laudan, L.}, year={1998}, pages={320-353} }

@inbook{Laudan_1998b, address={New York}, edition={1st ed}, title={Demystifying Underdetermination},
url={https://contentstore.cla.co.uk/secure/link?id=c3067e34-a943-e611-80bd-0cc47a6bdd eb}, booktitle={Philosophy of science: the central issues}, publisher={W.W. Norton},
author={Laudan, Larry}, year={1998}, pages={320-353} }

@book{Lipton, Peter_2004a, address={London}, edition={2nd ed}, title={Inference to the best explanation}, volume={International library of philosophy},
publisher={Routledge/Taylor and Francis Group}, author={Lipton, Peter}, year={2004} }

@book{Lipton, Peter_2004b, address={London}, edition={2nd ed}, title={Inference to the best explanation}, volume={International library of philosophy},
publisher={Routledge/Taylor and Francis Group}, author={Lipton, Peter}, year={2004} }

@book{Newton-Smith, W._1981a, address={Boston, Mass}, title={The rationality of science}, volume={International library of philosophy}, publisher={Routledge & Kegan Paul}, author={Newton-Smith, W.}, year={1981} }

@book{Newton-Smith, W._1981b, address={Boston, Mass}, title={The rationality of science}, volume={International library of philosophy}, publisher={Routledge & Kegan Paul}, author={Newton-Smith, W.}, year={1981} }

@misc{Nickles, title={Scientific Revolutions (Stanford Encyclopedia of Philosophy)},
url={http://plato.stanford.edu/entries/scientific-revolutions/}, author={Nickles, Thomas} }

@misc{Oberheim_Hoyningen-Huene, title={The Incommensurability of Scientific Theories (Stanford Encyclopedia of Philosophy)},
url={http://plato.stanford.edu/entries/incommensurability/}, author={Oberheim, Eric and Hoyningen-Huene, Paul} }

@article{Paul R. Thagard_1978, title={Why Astrology is a Pseudoscience}, volume={1978}, url={http://0-www.jstor.org.pugwash.lib.warwick.ac.uk/stable/192639}, journal={PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association}, publisher={The University of Chicago Press}, author={Paul R. Thagard}, year={1978}, pages={223-234} }

@inbook{Popper_2002a, address={London}, title={The Problem of Induction}, url={https://contentstore.cla.co.uk/secure/link?id=9b483484-c143-e611-80bd-0cc47a6bdd eb}, booktitle={The logic of scientific discovery}, publisher={Routledge}, author={Popper, K.}, year={2002}, pages={3-10} }

@inbook{Popper_2002b, address={London}, title={Conjectures and Refutations}, volume={Routledge classics}, url={https://contentstore.cla.co.uk/secure/link?id=14e00f7e-c143-e611-80bd-0cc47a6bdd eb}, booktitle={Conjectures and refutations: the growth of scientific knowledge}, publisher={Routledge}, author={Popper, K.}, year={2002}, pages={43-51} }

@inbook{Popper_2002c, address={London}, title={Conjectures and Refutations}, volume={Routledge classics}, url={https://contentstore.cla.co.uk/secure/link?id=14e00f7e-c143-e611-80bd-0cc47a6bdd eb}, booktitle={Conjectures and refutations: the growth of scientific knowledge}, publisher={Routledge}, author={Popper, K.}, year={2002}, pages={43-51} }

@inbook{Popper_2002d, address={London}, title={The Problem of Induction}, url={https://contentstore.cla.co.uk/secure/link?id=9b483484-c143-e611-80bd-0cc47a6bdd eb}, booktitle={The logic of scientific discovery}, publisher={Routledge}, author={Popper, K.}, year={2002}, pages={3-10} }

@book{Popper, Karl R._2002a, address={London}, title={The logic of scientific discovery}, volume={Routledge classics}, url={http://lib.myilibrary.com/browse/open.asp?id=23930&entityid=https://idp.warwick.ac.uk/idp/shibboleth}, publisher={Routledge}, author={Popper, Karl R.}, year={2002} }

@book{Popper, Karl R._2002b, address={London}, title={The logic of scientific discovery}, volume={Routledge classics}, url={http://lib.myilibrary.com/browse/open.asp?id=23930&entityid=https://idp.warwick.ac.uk/idp/shibboleth}, publisher={Routledge}, author={Popper, Karl R.}, year={2002} }

@inbook{Quine_1963, address={Cambridge, Mass}, edition={2d ed., rev}, title={Two Dogmas of Empiricism}, url={https://contentstore.cla.co.uk/secure/link?id=c800855f-c343-e611-80bd-0cc47a6bdd eb}, booktitle={From a logical point of view: 9 logico-philosophical essays}, publisher={Harvard University Press}, author={Quine, W. V.}, year={1963}, pages={20-46} }

@misc{Stanford, title={Underdetermination of Scientific Theory (Stanford Encyclopedia of Philosophy)}, url={http://plato.stanford.edu/entries/scientific-underdetermination/}, author={Stanford, Kyle} }

@book{Van Fraassen, Bas C._1980, address={Oxford}, title={The scientific image}, volume={Clarendon library of logic and philosophy}, url={http://0-www.oxfordscholarship.com.pugwash.lib.warwick.ac.uk/view/10.1093/01982

44274.001.0001/acprof-9780198244271-chapter-2}, publisher={Clarendon},
author={Van Fraassen, Bas C.}, year={1980} }

@misc{Vickers, title={The Problem of Induction (Stanford Encyclopedia of Philosophy)},
url={http://plato.stanford.edu/entries/induction-problem/}, author={Vickers, John} }

@article{Worrall_1989, address={Bienne}, title={Structural Realism: The Best of Both
Worlds}, volume={43},
url={http://0-www.jstor.org.pugwash.lib.warwick.ac.uk/stable/42970613}, number={1/2},
journal={Dialectica}, publisher={Dialectica}, author={Worrall, John}, year={1989},
pages={99-124} }