from

A Bibliography of Literary Theory, Criticism and Philology

<http://bit.ly/abibliog>

by José Ángel García Landa

(University of Zaragoza, Spain)

# Isaac Newton (1642-1727)

 (English mathematician and physicist; President of the Royal Society 1703-27; founder of modern mathematical physics, theorist of gravitation, optics, calculus)

**Works**

Newton, Isaac. From *A Letter of Mr. Isaac Newton, Professor of the Mathematics in the University of Cambridge, Containing His New Theory about Light and Colors.* 1672. In *The Norton Anthology of English Literature.* Ed. M. H. Abrams, Stephen Greenblatt et al. New York: Norton, 1999. 1.2150-55.\*

\_\_\_\_\_. *Commentary of the Tabula Smaragdina.* Ms. 1680-1690.

\_\_\_\_\_. *Regula Philosophandi.* 3rd ed. of *Hypothesis philosophandi.* 1st ed. 1687. 2nd ed, *Regula Philosophandi,* 1713.

\_\_\_\_\_. *A Treatise of the System of the World.* (Posthumous, written before *Principia*).

\_\_\_\_\_. *A Treatise of the System of the World: Translated into English.* London: Printed for F. Fayram, 1728. Online at Google Books:

 <https://books.google.es/books?id=rEYUAAAAQAAJ>

 2017

\_\_\_\_\_. *Philosophiae Naturalis Principia Mathematica.* 1687.

\_\_\_\_\_. *Principia Mathematica.* 3rd ed. 1726.

\_\_\_\_\_. *Isaac Newton's Mathematical Principles of Natural Philosophy and his "System of the World."* Trans. Andrew Motte. 1729. Rev. and ed. Florian Cajori. 2 vols. Berkeley, 1962.

\_\_\_\_\_. *The Principia: Mathematical Principles of Natural Philosophy*. 1687. Trans. I. Bernard Cohen and Anne Whitman. Berkeley and London: Uy of California P, 1999.

\_\_\_\_\_. *Principia Mathematica.* French trans. Émilie du Châtelet.

\_\_\_\_\_. *Principios matemáticos de la Filosofía Natural.* Ed. Antonio Escohotado. Trans. Antonio Escohotado and M. Sáenz de Heredia. Madrid: Tecnos, 1987. Rpt. Barcelona: Altaya, 1997.\*

\_\_\_\_\_. "Principios matemáticos de la filosofía natural." In *A Hombros de Gigantes: Las grandes obras de la física y la astronomía.* Ed. Stephen Hawking. Barcelona: Crítica, 2004. Pbk. 2012. 165-96.\*

\_\_\_\_\_. *Opticks.* 1704.

\_\_\_\_\_. *Opticks.* Digital version on CD-ROM. Octavo Digital Rare Books.

\_\_\_\_\_. *Òptica.* Trans. Carlos Solís. Madrid: Alfaguara, 1977.

\_\_\_\_\_. *De mundi systemate.*

\_\_\_\_\_. *De methodis serierum et fluxionum.* By Isasc Newton. Facsimile ed. Antonio J. Durán Guardeño.

\_\_\_\_\_. *El sistema del mundo.* Trans. Eloy Rada García. Madrid: Alianza, 1983.

\_\_\_\_\_. *El sistema del mundo.* Trans. Eloy Rada García. With Voltaire's *Los elementos de la filosofía de Newton.* Introd. Antonio Lafuente. (Biblioteca Universal). Barcelona: Círculo de Lectores, 1996. 53-141.\*

\_\_\_\_\_. *The Method of Fluxions.* (Orig. in Latin; French trans. by Buffon).

\_\_\_\_\_. *Correspondence.* Ed. H. W. Turnbull. Cambridge, 1959-.

\_\_\_\_\_. *El templo de Salomón.* Bilingual ed. Ed. and trans. Ciriaca Morano. Introd. José Manuel Sánchez Ron. Madrid: Debate/CSIC, 1996.\*

\_\_\_\_\_. *Newton.* Ed. I. B. Cohen and Richard W. Westfall. (Norton Critical Edition). New York: Norton, 1995.

**Biography**

Ackroyd, Peter. *Newton.* Biography.

Brewster, David (Sir). *Life of Newton.*1831.

Cropper, William H. *Great Physicists: The Life and Times of Leading Physicists from Galileo to Hawking.* Oxford: Oxford UP, 2002.

Levenson, Thomas. *Newton and the Counterfeiter: The Unknown Detective Career of the World's Greatest Scientist.* 2009.

 [http://www.amazon.com/Newton-Counterfeiter-Detective-Greatest-Scientist/dp/0151012784/ref=pe\_12351920\_txt\_5/](http://www.amazon.com/Newton-Counterfeiter-Detective-Greatest-Scientist/dp/0151012784/ref%3Dpe_12351920_txt_5/)

Manuel, Frank. *Portrait of Isaac Newton.* Cambridge (MA): Harvard UP, 1968.

Westfall, Richard S. *Never at Rest: A Biography of Isaac Newton.* Cambridge: Cambridge UP, 1980.

White, Michael. *Isaac Newton: The Last Sorcerer.* London: Fourth Dimension, 1997.

\_\_\_\_\_. *Isaac Newton.* Boadilla del Monte: SM, 1991.

**Criticism**

Aragó, F. *Grandes astrónomos: de Newton a Laplace.* Madrid: Espasa-Calpe, 1968.

Barrow, John D. *The Book of Nothing.* London: Jonathan Cape, 2000. (Nothingness, Zero, Emptiness, Space, Ether, Paradoxes, Truth, Universe, Mach, Einstein, Augustine, Shakespeare, Void, Being, Creation, Cosmology, Black holes, Aristotle, Big Bang, Quantum theory, Sets, Descartes, Electrons, Energy, God, Gravity, Indian philosophy, Light, Mathematics, Newton, Numbers, Pascal, Quarks, Sub-atomic physics, Time).

\_\_\_\_\_. *El libro de la nada.* (Drakontos). Barcelona: Crítica, 2001.\*

Cabezas Olmo, Encarna. "El principio de *vera causa* newtoniano: inspiración remota de la selección natural darwiniana." In *Evolucionismo y racionalismo.* Ed. Eustoquio Molina, Alberto Carreras and Jesús Puertas. Zaragoza: Institución "Fernando el Católico" / Universidad de Zaragoza, 1998. 89-100.\*

Christianson, Gale E. *In the Presence of the Creator: Isaac Newton and His Times.* New York: Free Press / Macmillan, 1984.

\_\_\_\_\_. *Newton.* 2 vols. Barcelona: Salvat, 1986.

Cohen, B. L. *La revolución newtoniana y la transformación de las ideas científicas.* Madrid: Alianza, 1983.

Cohen, I. Bernard. "Newton in the Light of Recent Scholarship." *Isis* 51 (1960): 489-514.

Drennon, Herbert. (Articles on the influence of Newton on Thomson). *PMLA* 49 (1934): 71-80; *Studies in Philology* 31 (1934): 453-71; *Philological Quarterly* 14 (1935): 70-82; *Englische Studien* 70 (1936): 358-72.

Durán Guardeño, Antonio J. *Newton: La ley de la gravedad: La fuerza más atractiva del universo.* National Geographic / RBA, 2014.\*

Eco, Umberto. "A hombros de gigantes." In Eco, *A hombros de gigantes: Conferencias en La Milanesiana 2001-2015.* Barcelona: Penguin Random House – Lumen, 2018. 11-32.\*

Einstein, Albert. "La mecánica de Newton y su influencia en el desarrollo de la física teórica." Trans. from *Die Naturwissenschaften* (1927). In Einstein, *Autobiografía y escritos científicos.* Barcelona: Círculo de Lectores, 1995. 245-54.\*

Eliade, Mircea. "XXXVIII. Religión, magia y tradiciones herméticas antes y después de las Reformas." In Eliade, *Historia de las creencias y de las ideas religiosas III.* Barcelona: RBA, 2005. 283-330.\* (Folk traditions; catharsis, witch hunting, Luther, Erasmus, Zwingli, Calvin, neoplatonism, hermeticism, humanism, alchemy, Paracelsus, Newton).

Elliott, R. W. "Isaac Newton's 'Of an Universall Language'." *Modern Language Review* 52 (1957): 1-18.

Feijoo, Benito Jerónimo (Fray). "Sobre los sistemas filosóficos (Newton)." From *Cartas eruditas y curiosas.* In Feijoo, *Antología popular.* Ed. Eduardo Blanco-Amor. Buenos Aires: Ediciones Galicia, 1966. 230-31.\*

\_\_\_\_\_. "Responde el autor a un tertulio (Bacon, Boyle y Newton)." From *Cartas eruditas y curiosas.* In Feijoo, *Antología popular.* Ed. Eduardo Blanco-Amor. Buenos Aires: Ediciones Galicia, 1966. 261-2.\*

Gleick, James. *Isaac Newton.*

Goethe, J. W. *Entwurf einer Farbenlehre.* Scientific essay. 1810-20.

\_\_\_\_\_. *Zur Farbenlehre.* In *Werke.* Vol.1 3. Hamburg, 1962.

\_\_\_\_\_. *The Theory of Colour.* Trans. Charles Lock Eastlake. 1840. Cambridge (MA), 1970.

\_\_\_\_\_. *Esbozo de una teoría de los colores.* Introd. R. Cansinos Asséns. In Goethe, *Obras completas.* Ed., trans. and introd. Rafael Cansinos Asséns. Madrid: Aguilar, 1957. Rpt. Madrid: Santillana, 2005. 7.11-15.\*

Gooding, David, Trevor Pinch and Simon Schaffer, eds. *The Uses of Experiment: Studies in the Natural Sciences.* Cambridge: Cambridge UP, 1989. 1993.\*

Grabo, Carl H. *A Newton Among Poets.* Chapel Hill, 1930.

Guerlac, Henry. "Where the Statue Stood: Divergent Loyalties to Newton in the Eighteenth Century." In *Aspects of the Eighteenth Century.* Ed. Earl R. Wasserman. Baltimore, 1965.

Hall, A. R. *The Scientific Revolution, 1500-1800: The Formation of the Modern Scientific Attitude.* London, 1954. (Newton, etc.)

Hawking, Stephen, ed. *The Illustrated On the Shoulders of Giants: The Great Works of Physics and Astronomy.*

\_\_\_\_\_, ed. *A Hombros de Gigantes: Las grandes obras de la física y la astronomía.* Barcelona: Crítica, 2004. Pbk. 2012.\* (Copernicus, Galileo, Kepler, Newton, Einstein).

*Isaac Newton.* Madrid: Urbión, 1984.

Kragh, Helge. *Conceptions of Cosmos: From Myths to the Accelerating Universe: A History of Cosmology.* Oxford: Oxford UP, 2007.

\_\_\_\_\_. *Historia de la cosmología: De los mitos al universo inflacionario.* Trans. Javier García-Sanz. Barcelona: Crítica, 2008.\* (Myths, Creation, Copernicus, Newton, Hubble, Big bang, Universe, Cosmos, Cosmology).

Mamiani, Maurizio. *Introducción a Newton.* (El Libro de Bolsillo). Madrid: Alianza, 1995.

Markley, Robert. *Fallen Languages: Crisis of Representation in Newtonian England, 1660 -1740.* Ithaca: Cornell UP, 1993. (Boyle, Wilkins, Peter Shaw and Newton; prose style, historicising scientific discourse)

Metzger, Hélène. *Attraction universelle et religion naturelle chez quelques commentateurs anglais de Newton.*Paris, 1938.

More, L. T. *Newton.* 1934.

Migliavacca, C. *Newton.* Barcelona: Círculo de Lectores, 1983.

*Newton.* Madrid: Debate, 1986.

Nicolson, Marjorie Hope. *Newton Demands the Muse: Newton's "Opticks" and the Eighteenth Century Poets.* Princeton (NJ): Princeton UP, 1946.

\_\_\_\_\_. "Aesthetic Implications of Newton's *Opticks."* From *Newton Demands the Muse.* In *Eighteenth-Century English Literature.* Ed. James L. Clifford.New York: Oxford UP, 1959. 194-211.\*

Peterfreund, Stuart. "Newton Demands Some Abstruser Musings: Three Recent Discussions of the Reception of 'Newton' in the Eighteenth and Nineteenth Centuries." *Papers on Language and Literature* 27.1 (1991): 112-134.\*

Rioja, A. and J. Ordóñez. *Teoría del Universo. Volumen II: de Galileo a Newton*. Madrid, Editorial Síntesis, 1999.

Russell, Bertrand. *Los principios de la matemática.* Trans. José Barrio Gutiérrez. Introd. Jesús Mosterín. Barcelona: Círculo de Lectores, 1997.\*

Russell, Colin A. "The Reception of Newtonianism in Europe." In *The Rise of Scientific Europe, 1500-1800.* Ed. David Goodman and Colin A. Russell. London: Hodder and Stoughton / Open U, 1991. 253-78.\*

Sánchez Ron, José Manuel. *El Jardín de Newton.* Barcelona: Crítica, 2002.

Saunderson, Nicholas. *The Method of Fluxions applied to a Select Number of Useful Problems, together with the Demonstration of Mr. Cotes's forms of Fluents in the second part of his Logometria, the Analysis of the Problems in his Scholium Generale, and an Explanation of the Principal Propositions of Sir Isaac Newton's Philosophy.* London, 1751. (Elementary mathematical physics).

Schaffer, Simon. "Glass Works: Newton's Prisms and the Uses of Experiment." In *The Uses of Experiment: Studies in the Natural Sciences.* Ed. David Gooding, Trevor Pinch and Simon Schaffer. Cambridge: Cambridge UP, 1989. 67-104.\*

Smolin, Lee. "II.2. Principles for a cosmological theory." In *The Singular Universe and the Reality of Time.* By Roberto Mangabeira Unger and Lee Smolin. Cambridge: Cambridge UP, 2015. 367-92.\* (Relations, Newton, Cosmology, Events, Einstein, Relativity).

Tallis, Raymond. *Newton's Sleep: The Two Cultures and the Two Kingdoms.* London: Macmillan, 1995.\*

Voltaire. *Cartas filosóficas.* 1734. Ed. Fernando Savater. Madrid: Editora Nacional, 1976.

\_\_\_\_\_. "Decimocuarta carta. Sobre Descartes y Newton." In Voltaire, *Cartas filosóficas. Diccionario filosófico. Memorias para servir a la vida de Voltaire escritas por él mismo.* Prologue by Fernando Savater. Introd. Martí Domínguez. (Grandes Pensadores Gredos; Voltaire, I). Madrid: Gredos, 2010. Rpt. Barcelona: RBA, 2014. 60-64.\*

\_\_\_\_\_. "Decimoquinta carta. Sobre el sistema de la atracción." In Voltaire, *Cartas filosóficas. Diccionario filosófico. Memorias para servir a la vida de Voltaire escritas por él mismo.* Prologue by Fernando Savater. Introd. Martí Domínguez. (Grandes Pensadores Gredos; Voltaire, I). Madrid: Gredos, 2010. Rpt. Barcelona: RBA, 2014. 65-72.\*

\_\_\_\_\_. "Decimosexta carta. Sobre la óptica del Sr. Newton." In Voltaire, *Cartas filosóficas. Diccionario filosófico. Memorias para servir a la vida de Voltaire escritas por él mismo.* Prologue by Fernando Savater. Introd. Martí Domínguez. (Grandes Pensadores Gredos; Voltaire, I). Madrid: Gredos, 2010. Rpt. Barcelona: RBA, 2014. 65-72. 60-64.\*

\_\_\_\_\_. *Los elementos de la filosofía de Newton.* With Isaac Newton's *El sistema del mundo.* Introd. Antonio Lafuente. Trans. Eloy Rada García, Antonio Lafuente and Luis Carlos Arboleda Aparicio. (Biblioteca Universal). Barcelona: Círculo de Lectores, 1996. 141-370.\*

White, Michael. *Rivals: Conflict as the Fuel of Science.* London: Vintage, 2001.

Audio

Durant, Will. "Isaac Newton." Audio. *YouTube (Rocky C)* 18 May 2015.\*

 <https://youtu.be/dwrh0srwezc>

 2016

+

"Isaac Newton: Entendiendo el Universo." *YouTube (UNEDradio)* 11 April 2014.\*

 <https://www.youtube.com/watch?v=MjnVLt9cDXU>

 2014

Sánchez Ron, José Manuel. "El grande entre los grandes: Isaac Newton." (La Ciencia a través de su historia). Lecture at *Fundación Juan March* 10 Feb. 2000. Online audio:

 <http://www.march.es/conferencias/anteriores/voz.aspx?id=463&l=1>

 2012 DISCONTINUED 2021

 <https://canal.march.es/es/coleccion/ciencia-traves-su-historia-ii-grande-entre-grandes-isaac-newton-20877>

 2021

Internet resources

"Isaac Newton." *Wikipedia: The Free Encyclopedia.\**

 <http://en.wikipedia.org/wiki/Isaac_Newton>

 2011

"Leyes de Newton." *Wikipedia: La Enciclopedia libre* <https://es.wikipedia.org/wiki/Leyes_de_Newton>

 2015

"Newton's Laws of Motion." *Wikipedia: The Free Encyclopedia.\**

 <https://en.wikipedia.org/wiki/Newton%27s_laws_of_motion>

 2015

Literature

Banville, John.*The Newton Letter.* Novel. London: Secker, 1982. (Filmed for Channel 4).

Beaven, Derek. *Newton's Niece.* London: Faber, 1994. 1995.\*

Pope, Alexander. "Intended for Sir Isaac Newton, In Westminster-Abbey." Epitaph. In *The Poetical Works of Pope.* Ed A. W. Ward. London: Macmillan, 1879. 461.\*

Ralph, James. "To the Memory of Sir Isaac Newton." Poem.  1727.

Tallis, Raymond. *Newton's Sleep: The Two Cultures and the Two Kingdoms.* London: Macmillan, 1996?

Toulmin, Stephen. *Cosmopolis: The Hidden Agenda of Modernity.* Chicago: U of Chicago P, 1990.

*\_\_\_\_\_. Cosmópolis: El trasfondo de la modernidad.* Foreword by José Enrique Ruiz-Domènec. Trans. Bernardo Moreno Carrillo. (Historia, ciencia, sociedad, 313). Barcelona: Península, 2001.\*

Related works

*Newton*. Science magazine. Ed. Antonio Romero. Madrid: Grupo Unidad Editorial, S.A. (Pres. Alfonso de Salas; General Ed. Pedro J. Ramírez; Magazines Ed. Natalia Escalada). Spanish version of Newton Press Inc., Japan. No. 36 (April 2001).\*

Video

*Isaac Newton: The Last Magician.* Dir. Renny Bartlett. BBC Productions, 2013. Online at *YouTube (OffTheVoiceUK2013)* 12 April 2013.\* DISCONTINUED

 <http://youtu.be/Dkuj_dQ_0lM>

 2013

*\_\_\_\_. Isaac Newton: The Last Magician.* Dir. Renny Bartlett. Prod. BBC, 2013. Online at *DailyMotion*

 <http://www.dailymotion.com/video/x1k332u_isaac-newton-the-last-magician-biography-reveals-newton-bbc-full-documentary-2013_tech>

 2014

\_\_\_\_. *Isaac Newton: The Last Magician.* Online at *Documentary Heaven.\**

 <https://documentaryheaven.com/isaac-newton-last-magician/>

 2021

"Isaac Newton: Un genio mezquino." *YouTube (Date un Vlog)* 3 Nov. 2018.\*

 <https://youtu.be/uw2WhlxDdRQ>

 2019

Saunders, Simon. "At Home and at Sea in an Infinite Universe: Newtonian and Machian Theories of Motion." Video lecture. *YouTube (Philosophy of Cosmology)* 5 July 2013.\*

 <https://youtu.be/rkudidA0eo0>

 2016

*Secret Life of Isaac Newton.* Video. *YouTube (Documentary Online)* 9 June 2014.\*

 <http://youtu.be/YPRV1h3CGQk>

 2014

 *YouTube (Amazing Documents)*

 <http://youtu.be/G2sUXrcWKHQ>

 2014

\_\_\_\_\_. "*Secret Life of Isaac Newton*." In García Landa, *Vanity Fea* 25 Nov. 2014.\*

 <http://vanityfea.blogspot.com.es/2014/11/secret-life-of-isaac-newton-hd-new-full.html>

 2014