

17

Referencias consultadas

Bibliografía

Accioly, A., Energy and momentum for the electromagnetic field described by three outstanding electrodynamics, Am. J. Phys. 62 (10), September 1997, pp. 882-887.

Aharonov, Y. y Bohm, D., Significance of electromagnetic potentials in the quantum theory, Physical Review, 1959, vol.115, num. 3.

Ahmedov, B.J. and Ermanatov, M.J., Electrical Conductivity in General Relativity, Found. Phys. Lett. 15, 137, April 2002.

Aleksandrov, A. D.; Kolmogorov, A. N.; Laurentiev, M. A. et al., La matemática; su contenido, métodos y significado. Alianza Universidad, 1973.

Alexaxéiev, A. I., Electrodinámica clásica, Mir, 1980.

Arnold, V. I., Mecánica clásica, Paraninfo, 1983.

Arnaud J. A., Beam and fiber optics, Academic Press, 1976.

Anderson, J. L., Why we use retarded potentials. Am.J.Phys.60 (5), May 1992.

Atwater, H.A., The Electromagnetic Field in Rotating Coordinate Frames, Proc. IEEE 63, 316 (1975).

Babic, V. M. y Kirpicnikova, N. Y., The boundary-layer method in diffraction problems, Springer Series in Electrophysics, 1979.

Barrow, J. D. y Tipler, F. J., The anthropic cosmological principle, Oxford, 1986.

Barrow, J. D., Las constantes de la naturaleza, Drakontos Crítica, 2006.

Los significados del campo electromagnético

- Barut, A. O., Electrodynamics and classical theory of fields and particles, Dover, 1980.*
- Bass, J., Cours de mathematiques, Mâsson, 1968.*
- Batiguin, V. V. y Toptiguin, I. N., Problemas de electrodinámica y teoría especial de la relatividad, Mir, 1995.*
- Becker, R., Electromagnetic Field and Interactions, Dover, 1982.*
- Bell, J. S., Speakable and unspeakable in quantum mechanics, Cambridge, 1987.*
- Berestetskii, V. B.; Lifshitz, E. M. y Pitaevskii, L. P., Teoría cuántica relativista, Reverté, 1971.*
- Bergmann, P., Theory of relativity, Dover, 1976.*
- Berkson, W., Fields of Force. The Development of a world view from Faraday to Einstein, Routledge & Kegan, 1974.*
- Bladel, J. van., Relativistic Theory of Rotating Disks, Proc. IEEE 61, 260, March 1973.*
- Bohm, D., The special theory of relativity, Benjamin, 1965.*
- Bohm, D., Quantum Theory, Dover, 1989.*
- Bohr, N., On the quantum theory of line spectra, Mathem. Afd. 8. Raekke, IV, 1, 1918.*
- Born, M., Einstein's theory of relativity, Dover, 1962.*
- Born, M., Dynamical theory of crystal lattices, Oxford at the Clarendon Press, 1954.*
- Born, M. y Wolf, E., Principles of optics, Pergamon, 1989.*
- Born, M., The mechanics of the atom, Frederick Ungar, 1960.*
- Born, M., Atom physics, Dover, 1989.*
- Brill, O. L. And Goodman B., Causality in the Coulomb gauge. 1967.*
- Brillouin, L., Les Tenseurs en mécanique et en élasticité, Dover, 1946.*
- Brush, S.G., Statistical physics and the atomic theory of matter, Princeton Series in Physics, 1983.*
- Bunge, M., Philosophy of physics, Reidel, 1973.*
- Bunge, M., Controversias en física, Tecnos, 1983.*
- Byron, F.W. and Fuller R.W, Mathematics of classical and quantum physics, Dover, 1969.*
- Cabrera, B., Principios de relatividad, Alta Fulla, 1986.*
- Calvo, M^a.L., Óptica Avanzada, Ariel Ciencia, 202.*

- Capeck, M., The philosophical impact of contemporary physics, Van Nostrand, 1961.*
- Carathéodory, C., Calculus of variations, AMS Chelsea, 1982.*
- Corinaldesi, E., Angular momentum of a static electromagnetic field. Am.J.Phys.48 (1), January 1980.*
- Carnap, R., Filosofía fundamentada de la física, Ed. Sudamericana, 1969.*
- Cartan, E., Leçons sur les invariants intégraux, Hermann, 1971.*
- Cartan, E., The Theory of spinors, Dover, 1981.*
- Cartan, H., Differential forms, Dover, 2006.*
- Courant, R. y Hilbert, D., Methods of mathematical physics, Interscience, 1953.*
- Crater, H.W., General covariance, the Lorentz force, and the Maxwell equations. Am.J.Phys.62. (10), October 1994.*
- Crone M.M., The environmental impact of vacuum decay. Am.J.Phys.59 (1), January 1991.*
- Darrigol, O., Electrodinámica desde Ampère hasta Einstein, Oxford, 2005.*
- D'Espagnat, B., En busca de lo real, Anlaza, 1981.*
- Davies, P., El universo accidental, Salvat, 1986.*
- Davis, A. M., A generalized Helmholtz theorem for time varying vector fields. Am.J.Phys.74 (1), January 2006.*
- Debbasch, F., Classical mechanics and gauge theories. Am, J. Phys. 62 (12), December 1993.*
- Debras, L. and al., Noether's theorem for local gauge transformations. Am.J.Phys.58 (2), February 1990.*
- Dyson F.J., Time without end: Physics and biology in an open universe. Reviews of Modern Physics, Vol.51,Nº3, July 1979.*
- De Broglie, L., Contenu et discontinu en physique moderne, Espasa Calpe, 1957.*
- De Broglie, L., Sur les sentiers de la science, Albin Michel, 1960.*
- De Broglie, L., Non linear wave mechanics, Elsevier, 1960.*
- De Broglie, L., An introduction to the study of wave mechanics, Methuen.1930*
- De Broglie, L., On the theory of quanta, Ann. de Phys., serie 10, t. III.*
- Dirac, P. A. M., General theory of relativity, Princeton, 1996.*
- Dirac, P. A. M., Lectures on quantum mechanics, Dover, 2001.*
- Dirac, P. A. M., Quantum mechanics, Oxford, 1958.*

Los significados del campo electromagnético

- Dirac, P. A. M., Quantised singularities in electromagnetic field, Proc. Roy. Soc. A 133, 1960.*
- Doughty, N.A., Lagrangian interaction. Perseus Books. 1998*
- Dyson, F. J., Feynman's proof of the Maxwell equations, Am. J. Phys. 58 (3), March 1990.*
- Eddington, A. S., The mathematical theory of relativity, Cambridge, 1965.*
- Einstein, A., On the electrodynamics of moving bodies, Ann. Phys. 17, 891, 1905.*
- Einstein, A., The principle of relativity, Dover, 1952.*
- Einstein, A., El significado de la relatividad, Espasa Calpe, 1971.*
- Einstein, A., Mi visión del mundo, Tusquets, 1980.*
- Elmore, W. C. y Heald, M. A., Physics of waves, Dover, 1985.*
- Elsigoltz, L., Ecuaciones diferenciales y cálculo variacional, Mir, 1969.*
- Feynman, R. P. y Weimberg, S., Elementary particles and the laws of physics, Cambridge, 1987.*
- Feynman, R. P., Lectures on gravitation, Westview, 2003.*
- Feynman, R. P., The Feynman lectures on physics, Addison-Wesley, 1963.*
- Feynman, R. P., The strange theory of light and matter, Princeton, 1985.*
- Feynman, R. P., The development of the space-time view of quantum electrodynamics, lectura del Nobel, 11 de diciembre de 1965.*
- Feynman, R. P., Quantum electrodynamics, Westview, 1961.*
- Feynman, R. P., El carácter de la ley física, Antoni Bosch, 1983.*
- Feynman, R. P., Space-Time Approach to Quantum Electrodynamics, Phys. Rev. 76, 769, 1949.*
- Feynman, R. P. y Hibbs, A. R., Quantum mechanics and path integrals, McGraw-Hill, 1965.*
- Flanders, H., Differential forms with Applications to the physical sciences, Dover, 1989.*
- Frankel, T., The Geometry of Physics, Cambridge, 1997.*
- French, J.D., Pedagogical trick for general relativity. Am J. Phys., 45 (6), June 1977.*
- Friedman, M., Foundations of space time theories, Princeton, 1983.*
- Galtstov, D.V. and Vladimirovich G.L., Campos clásicos, URSS, 1991.*
- Gamow, G., Mr. Tompkins in Wonderland, Cambridge, 1965.*

- García de la Infanta, J. M.**, *Primeros pasos de la luz eléctrica en Madrid*, Fondo Natural, 1987.
- Garay, L.J.**, *Notas de electrodinámica clásica*. Universidad Complutense de Madrid. Octubre 2008.
- Garay, L.J.**, *Notas de mecánica teórica*. Universidad Complutense de Madrid. Enero 2010.
- García-Ochoa, F.**, *Problemas de campos electromagnéticos*, Ed. Comillas, 2002.
- Georgiou, A.**, *The Electromagnetic Field in Rotating Coordinates*, Proc.IEEE 76,1051, August 1988.
- Goedecke, G.H.**, *On electromagnetic conservation law*. Am.J.Phys.68 (4), April 2000.
- Goldstein, H.**, *Classical mechanics*, Addison-Wesley, 1980.
- Goldstein, H.**, *Mecánica clásica*, Aguilar, 1965.
- Gómez-Reino, C. and Larrea, E.**, *Propagation in gradient index material by the matrix wave theory: Application to a square law medium*. Applied Optics. Vol. 23, NO-19. 1984.
- Gómez-Reino, C. and Larrea, E.**, *Methods for determination of the complex amplitude distribution transmitted by an Arbitrary surface*. Optica Acta.1982. Vol. 29, NO-5, Págs. 691-700.
- Goldstein, H.; Pool, C. y Safko, J.**, *Classical mechanics*, Pearson, 2004.
- Goodman, J. W.**, *Introduction to Fourier Optics*, McGraw-Hill, 1968.
- Griffiths, D.J. & Heald M.A.**, *Retardation and relativity: derivation of Lorentz-Einstein transformations from retarded integrals for electric and magnetic fields*, Am.J.Phys.63 (5), May 1995.
- Grøn, Ø.**, *Application of Schiff's rotating-frame electrodynamics*. Int.J.Theor.Phys. 23, 441 (1984).
- Grøn, Ø.**, *Relativistic description of a rotating disk*, Am. J. Phys. 43, 869 (1973).
- Hamermesh, M.**, *Group theory and its applications to physical problems*, Dover, 1962.
- Harris, E.G.**, *Analogy between general relativity and electromagnetism for slowly moving particles in weak gravitational fields*, Am. J. Phys. 59, 5, May 1991.
- Hassoun, G.K. and Kobe D.H.**, *Shynthesis of the Planck and Bohr formulations of the correspondence principle*. Am.J.Phys.57 (7), July 1989.
- Hawking, S.**, *La gran ilusión. Las grandes obras de Einstein*, Crítica, 2008.
- Heisenberg, W.**, *The physical principles of the quantum theory*, Dover, 1949.

Heisenberg, W., Physics and philosophy, Dover, 1958.

Heitler, W., The quantum theory of radiation, Dover, 1984.

Heras, J. A., A short proof of the generalized Helmholtz theorem, Am. J. Phys. 58 (2), February 1990.

Heras, J. A., Jefimenko's formulas with magnetic monopoles and the Liénard-Wiechert fields of a dual charged particle, Am. J. Phys. 62 (6), June 1994.

Heras, J. A., Radiation fields of a dipole in arbitrary motion, Am. J. Phys. 62 (12), December 1994.

Heras, J. A., Duality transformations and the Liénard-Wiechert fields of a dual charged particle, Am. J. Phys. 63 (3), March 1995.

Heras, J. A., Alternate derivation of the Liénard-Wiechert fields of a point charge, Am. J. Phys. 64 (4), March 1996.

Heras, J. A., The relation between expressions for time dependent electromagnetic fields given by Jefimenko and Panofsky and Philips, Am. J. Phys. 65 (6) June 1997.

Heras, J. A., How potentials in different gauges yield the same retarded electric and magnetic fields, Am. J. Phys. 75 (2), pp. 914-916, February 2007.

Heras, J. A., The Coulomb static gauge, Am. J. Phys. 75 (5), May 2007.

Heras, J. A., Can Maxwell's equations be obtained from continuity equation, Am. J. Phys. 75 (7), July 2007.

Heras, J. A., Electromagnetic in Euclid, Am. J. Phys. 62 (10), pp. 914-916, October 1994.

Heras, J. A., Radiation fields of a dipole in arbitrary motion, Am. J. Phys. 62 (12), pp. 1109-115, December 1994.

Hemyan A. and als, Noether theorem and local gauge invariance. Am. J. Phys. 59 (4), April 1991.

Hestenes D., Reforming the mathematical language of physics. Oersted medal lecture 2002.

Hestenes D. And Gurtler R., Local observables in quantum theory. AJP Vol.39 pg.1028-1038. September 1971.

Hestenes D., New foundations for classical mechanics. Second edition.

Kluwer Academic Publishers 1999.

Hnido V., Hidden momentum and the electromagnetic mass of a charge and current carrying body. Am. J. Phys. 65(1), January 1997.

Hnido V, McDonald, K.T. and Ridgely, C.T., *Charged, Counter-Rotating Disks on a Rotating Platform.* Sep. 11, 2008.

<http://puhep1.princeton.edu/~mcdonald/examples/counterrotation.pdf>

Huang, Young-Sea., *An alternative derivation of the equations of motion of the relativistic (an)harmonic oscillator.* *Am. J. Phys.* 67 (2), February 1999.

Hughes, R. J., *On Feynman's Proof of the Maxwell Equations,* *Am. J. Phys.* 60 (2), pp. 301-178, April 1992.

Jackson, J. D., *Electrodinámica clásica,* Alhambra, 1966.

Jackson, J. D., *Classical electrodynamics,* John Wiley & Sons, 1999.

Jackson, J. D., *From Lorentz and other explicit gauge transformations,* *Am.J.Phys.* 70 (9), September 2002.

Jammer, M., *The conceptual development of quantum theory,* McGraw Hill, 1966.

Jammer, M., *The historical development of quantum mechanics,* Springer Verlag, 1982.

Jammer, M., *Concepts of Force,* Dover, 1999.

Jammer, M., *Concepts of Space,* Dover, 1999.

Jammer, M., *Concepts of Mass,* Dover, 1999.

Jammer, M., *If Maxwell had worked between Ampère and Faraday,* *Am. J. Phys.* 48 (1), January 1980.

Jammer, M., *Concepts of simultaneity,* The John Hopkins University Press, 2006.

Janah A.R., and als, *On Feynman's formula for the electromagnetic field of an arbitrarily moving charge,* *Am.J.Phys.* 56(11), November 1988.

Jauch, J. M., *Are Quanta Real? A Galilean Dialogue,* Indiana University, 1973.

Jefimenko, O.D., *Electricity and Magnetism,* Appleton-Century-Crofts, 1966.

Jefimenko, O.D., *Causality Electromagnetic induction and gravitation,* Electret SCSC, 2000.

Jefimenko, O.D., *Electromagnetic retardation and theory of relativity,* Electret SCSC, 2004.

Jefimenko, O.D., *Gravitation and cogravitation,* Electret SCSC, 2006.

Jefimenko, O.D., *Force exerted on stationary charge by a moving electric current or by a moving magnet,* *Am.J.Phys.* 61 (3), March 1993.

Jefimenko, O.D., *New method for calculating electric and magnetic fields and forces,* *Am.J.Phys.* 51 (6), June 1983.

Jefimenko, O.D., Correct use of Maxwell stress equations for electric and magnetic fields, Am.J.Phys.51 (11), November 1983.

Jefimenko, O.D., Solutions of Maxwell's equations for electric and magnetic fields in arbitrary media, Am.J.Phys.60 (10), October 1983.

Jefimenko, O.D., Direct calculation of electric and magnetic forces from potentials, Am.J.Phys.58(7), July 1990.

Jefimenko, O.D., Time dependent generalizations of the Biot-Savart and Coulomb laws, Am.J.Phys.59(32), February 1991.

Jefimenko, O.D., Retardation and relativity: The case of a moving line charge, Am.J.Phys.63 (3), March 1995.

Jefimenko, O.D., Derivation of relativistic force transformation equations from Lorentz force law, Am.J.Phys.64(5), March 1996.

Jefimenko, O.D., Direct calculation of time dilatation, Am.J.Phys.64 (6), March 1996.

Joos, G., Theoretical Physics, Dover, 1986.

Kaganov, M. y Tsukernik, V., La naturaleza del magnetismo, Mir, 1982.

Kaiser, D., La física y los diagramas de Feynman, Investigación y Ciencia, septiembre 2005.

Kislev, A. and vaidman L., Relativistic causality and conservation of energy in classical electromagnetic theory. Am.J.Phys.70 (12), December 2002.

Kittel, C., Introduction to Solid State Physics, John Wiley, 1971.

Kline, M., Electromagnetic Theory and Geometrical Optics, Interscience Publisher, 1965.

Kobe, D.H., Derivation of Maxwell's equations from the local gauge invariance of quantum mechanics. Am.J.Phys.46 (4), April 1978.

Kobe, D.H., Gauge invariant formulation of the interaction of electromagnetic radiation and matter, Am.J.Phys.46 (6), June 1978.

Kobe, D.H., Derivation of Maxwell's equations from the gauge invariance of classical mechanics, Am.J.Phys.48(5). April 1980.

Kobe, D.H., Feynman path integral and gauge invariance, Am.J.Phys.48 (6). April 1980.

Kobe, D.H., Gauge invariant classical Hamiltonian formulation of the electrodynamics of nonrelativistic particles. Am.J.Phys.49 (6), June 1981.

Kobe, D.H., Energy flux vector for the electromagnetic field and gauge invariance. Am.J.Phys.50(12), June 1982.

Kobe, D.H., Gauge transformations and the electric dipole approximation. *Am.J.Phys.*50 (2), Feb. 1982.

Kobe, D.H., Gauge in quantum mechanics: zero electromagnetic field. *Am.J.Phys.*51 (2), February 1983.

Kobe, D.H., Second quantization in non relativistic quantum mechanics. *Am.J.Phys.*51 (4), April 1983.

Kobe, D.H., Active and passive views of gauge invariance in quantum mechanics. *Am.J.Phys.*54 (1), January 1986.

Kobe, D.H., Helmholtz's theorem revisited *Am.J.Phys.*54 (6), June 1986.

Kobe, D.H., A gauge in which the Hamiltonian of a nonrelativistic charged particle is kinetic energy. *Am.J.Phys.*56(6), June 1988.

Kobe, D.H., Gauge transformations in classical mechanics as canonical transformations, *Am.J.Phys.*56(3), March 1988.

Koks, D. *Explorations in Mathematical Physics*, Springer, 2006.

Krasnov, M. L. et al., *Cálculo variacional*, Mir, 1976.

Kuhn, T. S., *Black body and the quantum discontinuity*, Oxford, 1978.

Kuhn, T. S., *The structure of scientific revolution*, University Chicago Press, 1962.

Kuo-Ho Yang., The physics of gauge transformations, *Am. J. Phys.* 73 (8), June 2005.

Lanczos, C., *The variational principles of mechanics*, Dover, 1986.

Landau, L. D. y Lifshitz, E. M., *Electrodinámica de los medios continuos*, Reverté, 1981.

Landau y Lifshitz, *Teoría clásica de campos*, Reverté, 1981.

Landé, A., *New Foundations of Quantum Mechanics*, Tecnos, 1968.

Leibniz., *Escritos*. Ed. Gredos.

Lemos, N. a., Symbolic proof of the Helmholtz theorem. *Am.J.Phys.*55 (1), January 1987.

Larrea, E., "Función de transmisión de una superficie de refracción y teoría general de la transmisión de imagen a través de medios dieléctricos inhomogéneos". Tesis Doctoral, Universidad de Santiago. 1982. Ed. Universidad Santiago de Compostela. D.L.: C-14-1983. ISBN: 84-300-8363-4.

Larrea, E., and Flores, F. On the equivalence of surface potentials.

Surface Science, 49, 339-343 (1975).

Larrea, E., *Los significados del campo electromagnéticos y sus transformaciones históricas*. 1ª Edición. ISBN:778-613-25467. 2009.

Los significados del campo electromagnético

- Larrea, E., *Teorías sobre el origen de la luz y el campo electromagnético*. Ed. Boobok. ISBN: 9788499166025. 2010.
- Larrea, E., Artículos. <http://enriquelarrea.es>.
- Lawrie, I. D., *A unified grand tour of theoretical physics, Iop*, 2002.
- Layzer, D., *La construcción del universo*, Scientific American Books, 1989.
- Levich, B. G., *Teoría del campo electromagnético*, Reverté, 1974.
- Levich, B. G., *Mecánica cuántica*, Reverté, 1974.
- Lichnerowicz, A., *Cálculo tensorial*, Aguilar, 1972.
- Lindley, D., *incertidumbre*, Ariel, 2008.
- Longair, M., *Theoretical concepts in physics*, Cambridge, 1984.
- Lovelock, D. y Rund, H., *Tensors, differential forms and variational principles*, Dover, 1989.
- Lunenburg, R. K., *Mathematical theory of optics*, University California Express, 1964.
- McDonald, K.T., *Electrodynamics of rotating systems*. August 6, 2008. <http://cosmology.princeton.edu/~mcdonald/examples/rotatingEM.pdf>
- McDonald, K.T., *The Wilson-Wilson Experiment* (July 30, 2008). <http://puhep1.princeton.edu/~mcdonald/examples/wilson.pdf>
- Mach, E., *Space and geometry*, Dover, 2004.
- Marcuse, D., *Light transmission optics*, Van Nostrand Reinhold Company, 1972.
- Marchand, W., *Gradient index-optics*, Academic Press, 1978.
- Margenau, H., *The nature of physical reality*, McGraw-Hill, 1950.
- Margenau, H. y Lindsay, R. B., *Foundations of physics*, Dover, 1957.
- Margenau, H. y Murphy, G. M., *Las matemáticas de la física y la química*, Epesa, 1952.
- Marsh, S. S., *Alternate derivation of Maxwell source equations from gauge invariance*, Am. J. Phys. 61 (2), February 1993.
- Maxwell, J. C., *Materia y movimiento*, Crítica, 2006.
- Maxwell, J. C., *The Scientific papers of James Clerk Maxwell*, Dover, Phoenix, 2003.
- Maxwell, J. C., *Treatise on electricity and magnetism*, Dover, 1954.
- McMahon, D., *Relativity demystified*, McGraw-Hill, 2006.
- McMahon, D., *Quantum Field Demystified*, McGraw-Hill, 2008.
- Miller, B. P., "Interpretation from Helmholtz's theorem in classical electromagnetism". Am.J.Phys.52(10), October 1984.

- Mills, R., Gauge fields. Am.J.Phys.57(6), June 1989.*
- Misner, C. W.; Thorne, K. S. y Wheeler, J. A., Gravitation, W. H. Freeman, 1973.*
- Mittelstaedt, P., Problemas filosóficos de la física moderna, Alhambra, 1969.*
- Modesitt, G.E., Maxwell's Equations in a Rotating Frame, Am. J. Phys. 38, 1487 (1970)*
- Moller, C., The theory of relativity, Oxford, 1952.*
- Monsterín, J. y Torretti, R., Diccionario de lógica y filosofía de la ciencia. Alianza Editorial. 2ª Edición. 2010.*
- Moreau, W., Easther, R. and Neutze, R., Relativistic (an)harmonic oscillator. Am, J. Phys. 62 (6), June 1994.*
- Moriyasu, K., Gauge invariance rediscovered. Am.J.Phys.46 (3), March 1978.*
- Moriyasu, K., Breaking of gauge symmetry: A geometrical view. Am.J.Phys.48 (3), March 1980.*
- Mosley, S.N., Electromagnetic in retarded time and photon localization. Am.J.Phys.65 (11), November 1997.*
- Morse, P. M. y Feschbach, H., Methods of Theoretical Physics, McGraw-Hill, 1953.*
- Muñoz, G., Lagrangian field theory and energy-momentum tensors. Am.J.Phys.64 (9), September 1996.*
- Nagel, E. y Newman, J. R., El teorema de Gödel, Techos, 1979.*
- Namias, V., Applications of the Dirac delta to electric current and magnetic multipole distributions. Am.J.Phys.47(9), September 1979.*
- Narlikar, J., The structure of the universe, Oxford, 1977.*
- Nonozhilov, Y. V., Electrodynamics, Mir, 1981.*
- O'Raiheartaigh, L., The dawning of the gauge theory, Princeton Series, 1997.*
- Pais, A., The science and the life of Albert Einstein, Oxford University Press, 1982.*
- Pais, A., Inward bound, Clarendon Press, 1986.*
- Palacios, J., Mecánica física, Imprenta del Ministerio del aire 1942.*
- Palacios, J., Análisis dimensional, Espasa-Calpe 1964.*
- Panofsky, W. K. H. y Philips, M., Classical electricity and magnetism, Addison-Wesley, 1962.*
- Pappas, R.C., Analog of Birchoff's theorem for classical Yang-Mill Theories. Am.J.Phys.53 (9), September 1985.*
- Papoulis, A., Systems transforms with applications in optics, McGraw-Hill, 1968.*

- Pauli, W., *Electrodynamics*, Dover, 2000.
- Pauli, W., *Optics and the theory of electrons*, Dover, 2000.
- Pauli, W., *Selected topics in field quantization*, Dover, 2000.
- Pauli, W., *Theory of relativity*, Pergamon Press, 1958.
- Pellegrini, G.N. y Swift, A.R., *Maxwell's equations in a rotating medium: is there a problem?*. *Am.J.Phys.*63 (8), August 1995.
- Planck, M., *As survey of physical theory*, Dover, 1960.
- Planck, M., *Eight lectures on theoretical physics*, Dover, 1998.
- Planck, M., *Theory of electricity and magnetism*, MacMillan, 1932.
- Pogorélov, A. V., *Geometría diferencial*, Mir, 1977.
- Poincaré, H., *The value of science*, Dover, 1958.
- Poincaré, H., *La ciencia y la hipótesis*, Espasa-Calpe, 2002.
- Popper, K., *La lógica de la investigación científica*, Tecnos, 1994.
- Popper, K., *Teoría cuántica y cisma en física*, Tecnos, 1985.
- Post, E. J., *Formal structure of electromagnetics*, Dover, 1997.
- Power, E.A. and Thirunnamachandran T., *On the nature for the interaction of radiation with atoms and molecules*. *Am.J.Phys.*46(4), April 1978.
- Prigogine, I., *El nacimiento del tiempo*, Metatemas, 1981.
- Prigogine, I., *Termodinámica de los procesos irreversibles*, Alianza Universidad, 1994.
- Rañada, A., *Dinámica clásica*, Selecciones Científicas, 1974.
- Red'zi'c, D.V., *Electromagnetism of rotating conductors revisited*, *Eur.J.Phys.*23, 127 2002.
- Reichenbach, H., *The direction of time*, Dover, 1999.
- Reichenbach, H., *Philosophic foundations of quantum mechanics*, Dover, 1998.
- Ridgely, C.T., *Applying relativistic electrodynamics to a rotating material medium*. *Am.J.Phys.*66 (2), February 1998.
- Ridgely, C.T., *Applying covariant versus contravariant electromagnetic tensors to rotating media*, *Am. J. Phys.* 67, 414, May 1999.
- Roche, J. J., *B and H, the intensity vector of magnetism*, *Am.J.Phys.*68 (5), May 2000.
- Rohrlich, F., *Causality, the Coulomb field, and Newton's law gravitation*, *Am.J.Phys.*70 (4), April. 2002.

- Rowan-Robinson, M., *The nine number of the cosmos*, Oxford, 1999.
- Sakurai, J. J., *Avanced quantum mechanics*, Pearson, 1967.
- Sakurai, J. J., *Modern quantum mechanics*, Pearson, 1994.
- Sánchez del Río, C., *El significado de la física*, Ed. Complutense, 2002.
- Sánchez del Río, C., *Análisis de errores*, Eudema, 1989.
- Sánchez Ron, J.M.C., *Historia de la mecánica cuántica*, Drakontos Crítica, 1981.
- Santaló, L. A., *Vectores y tensores*, Ed. Universitaria Buenos Aires, 1969.
- Santarelli, V., *Intrinsic angular momentum of light*, *Am.J.Phys* 47 (5), May 1979.
- Schilpp, P.A., *Albert Einstein philosopher and scientist*, Harper Torchbooks. 1959.
- Schrödinger, E., *Space-Time Structure*, Cambridge, 1950.
- Schröd Schrödinger, E., *Mente y materia*, Metatemas, 1983.
- Inger, E., *Mi concepción del mundo*, Metatemas, 1983.
- Schrödinger, E., *Mente y materia*, Metatemas, 1983.
- Schrödinger, E., *Statistical thermodynamics*, Dover, 1939.
- Schrödinger, E., *The fundamental idea of wave mechanics*, *Lectura de Nobel*, 1933.
- Schrödinger, E., *An undulatory theory of the mechanics of atoms and molecules*, *Physical Review*, vol. 28, núm. 6, 1926.
- Schrödinger, E., *Sur la théorie relativiste de l'électron e l'interprétation de la mécanique cuantique*, *Annales de l'Institut Henri Poincare*, tomo 2, núm. 4, 1933.
- Schrödinger, E., *Collected papers on wave mechanics*, AMS Chelsea, 1982.
- Schwartz, A. J. y Doughty, N. A., *Kalutza-Klein unification and the field weak-field limit*, *Am.J.Phys.* 60 (2), February 1997.
- Schwinger, J., *Quantum electrodynamics*, Dover, 1958.
- Sen, D. K. *Fields and particles*, The Ryerson Press, 1968.
- Sena, L. A. *Unidades de las magnitudes físicas y sus dimensiones*, Mir, 1979.
- Shiff, L. I., *Quantum mechanics*, McGraw-Hill, 1968.
- Shiff, L. I., *A question in general relativity*. *Proc.Nat.Acad.Sci. (U.S.)* 25, 391 (1939).
- Shiozawa, T., *Phenomenological and Electron-Theoretical Study of the electro-dynamics of Rotating Systems*, *Proc. IEEE* 61, 1694, December 1973.
- Smirnov, V., *Cours de mathématiques supérieures*, Mir, 1979.
- Sokolnikoff, I. S., *Análisis tensorial*, Index-Prial, 1971.
- Sommerfeld, A., *Electrodynamics*, Academic Press, 1952.

- Sommerfeld, A., Optics, Levant Books, 2006.*
- Spiegel, M. R., Vector analysis, Schaum, 1959.*
- Spivak, M., Cálculo en variedades, Reverté, 1970.*
- Stewart A.M., On an identity for the volume integral of the square of a vector field, Am.J.Phys.75 (6), June 2007.*
- Story, T. L., Dynamics on differential one forms, Weier Club Press, 2002.*
- Stratton, J. A., Electromagnetic theory, McGraw-Hill, 1941.*
- Struik, D. J., Lectures on classical differential geometry, Addison Wesley, 1950.*
- Syngé, J. L. y Schild, A., Tensor calculus, Dover, 1978.*
- Tolman, R. C., The principles of statistical mechanics, Dover, 1979.*
- Tolman, R. C., Relativity thermodynamics and cosmology, Dover, 1987.*
- Tolman, R. C., The theory of the relativity of motion, Dover Phoenix, 2004.*
- Tonomu, A. et al., "Evidence for the Aharon-Bohm effect with magnetic field completely shielded from electron wave", Physical Review, vol. 56, núm. 8, 1986.*
- Tran-Cong Ton., Derivation On the time-dependent, generalized Coulomb and Biot-Savart laws, Am.J.Phys.59(6), March 1991.*
- Truesdell, C., Essays in the history of mechanics, Springer Verlag, 1968.*
- Von Neumann, J., Fundamentos matemáticos de la mecánica cuántica, Consejo Superior de Investigaciones Científicas (CSIC), 1991.*
- Webster, D.L., Shiff's charges and currents in rotating matter. Am.J.Phys.31, 590 (1963).*
- Weber, T.A., Measurements on a rotating frame in relativity, and the Wilson and Wilson experiment, Am. J. Phys. 65, 946, October 1997.*
- Weinberg. S., El sueño de una teoría final, Drakontos Critica, 1992.*
- Weyl, H., Philosophy of mathematics and natural science, Princeton University Press, 1952. Weyl, H., Space time and matter science, Dover, 1949.*
- Wigner, E.P., Symmetries and reflections, scientific essays, OX Bow Press, 1967.*
- Woodside, D. A., Uniqueness theorems for classical four-vector fields in Euclidean and Minkowski spaces. Journal of Mathematical Physics. Vol.40, Number 10, pp. 4911-4943, October 1999.*
- Woodside, D. A., Three vector and scalar field identities and uniqueness theorems in Euclidean and Minkowski spaces, Am. J. Phys. 77 (5), May 2009.*
- Zimmerman E.J., The macroscopic nature of space-time. Am.J.Phys.1960.*