



Geophysical Fluid Dynamics Library Holdings

The majority of these books were generously donated by the estate of Edward A. Spiegel. Ed was a longtime GFD Staff, Faculty, and Advisory Committee member from 1959 through 2019.

- Abell, George O., 1978. *Drama of the Universe*. Holt, Rinehard and Winston, New York. ISBN 0-03-022401-2.
- Abramowicz, Marek A., Gunnlaugur Björnsson, James E. Pringle, 1998. *Theory of Black Hole Accretion Disks*. Cambridge University Press, Cambridge. ISBN 0-521-62362-6.
- Acheson, D.J., 1990. *Elementary Fluid Dynamics*. Clarendon Press Oxford. ISBN 0-19-859679-0.
- Adams, Colin C., 1994. *The Knot Book: An Elementary Introduction to the Mathematical Theory of Knots*. W.H. Freeman and Company, New York. ISBN 0-7167-2393-X.
- Adler, Irving, 1964. *The New Mathematics*. New American Library, New York.
- Adrian, E. Gill, 1982. *Atmosphere-Ocean Dynamics*. International Geophysics Series, Volume 30. Academic Press, Orlando. ISBN 0-12-283522-0.
- Aitchison, I.J.R., and A.J.G. Hey, 1989. *Gauge Theories in Particle Physics: A Practical Introduction*. Institute of Physics Publishing, Bristol. ISBN 0-85274-328-9.
- Akhiezer, A.I., and S.V. Peletminskii, 1981. *Methods of Statistical Physics*. Pergamon Press, Oxford. ISBN 0-08-025040-8.
- Aller, Lawrence H., 1963. *Astrophysics: The Atmospheres of the Sun and Stars*. The Ronald Press Co., New York.
- Aller, Lawrence H., and Dean B. McLaughlin(Eds.), 1965. *Stellar Structure*. Volume VIII of *Stars and Stellar Systems...a nine-volume compendium of astronomy and astrophysics*. The University of Chicago Press, Chicago.
- Amaldi, Giustra, 1961. *The Nature of Matter: Physical Theory from Thales to Fermi*. University of Chicago Press, Chicago. ISBN 0-226-01661-7.
- Ambrosetti, A., and G. Prodi, 1993. *A Primer of Nonlinear Analysis*. Cambridge University Press, New York. ISBN 0-521-37390-5.
- Anderson, J.L., 1967. *Principles of Relativity Physics*. Academic Press, New York.
- Anderson, John D., Jr., 1976. *Gasdynamic Lasers: An Introduction*. Academic Press, NEW YORK. ISBN 0-12-056950-7.
- Andima, S., Kopperman, P.R. Misra, and A.R. Todd (Eds.), 1992. *Papers on General Topology and Applications*. Sixth Summer Conference at Long Island University. The New York Academy of Sciences, New York. ISBN 0-89766-765-5.
- Andronow, A.A., and C.E. Chaikin, 1949. *Theory of Oscillations*. Princeton University Press, Princeton.
- Anosov, D.V., and V.I. Arnold (Eds.), *Encyclopedia of Mathematical Sciences: Dynamical Systems I*. Springer-Verlag, Berlin. ISBN 0-387-17002-2.
- Arm, David L. (Ed.), 1965. *Science in the Sixties*. The Tenth Anniversary AFOSR Scientific Seminar, June 1965.
- Arnold V.I. (Ed.), 1985. *Encyclopedia of Mathematical Sciences: Dynamical Systems III*. Springer-Verlag, Berlin. ISBN 3-540-17002-2.
- Arnold, V., 1974, *Les Méthodes Mathématiques de la Mécanique Classique* (in French). Mir Publishers, Moscow.
- Arnold, V.I., and A. Avez, 1989. *Ergodic Problems of Classical Mechanics*. Addison-Wesley Publishing Company, Inc., Redwood City. ISBN 0-201-09406-1.

- Arnold, Vladimir I., and Boris A. Khesin, 1998. *Topological Methods in Hydrodynamics*. Applied Mathematical Sciences, Volume 125. Springer-Verlag, New York. ISBN 0-387-94947-x.
- Arrowsmith, D.K., and C.M. Place, 1990. *An Introduction to Dynamical Systems*. Cambridge University Press, Cambridge. ISBN 0-521-31650-2.
- Avrett, Eugene H. (Ed.), 1976, *Frontiers of Astrophysics*. Harvard University Press, Cambridge. ISBN 0-674-32660-1
- Babiano, Armando, Antonello Provenzale, and Angelo Vulpiani (Eds.), 1994. *Chaotic Advection, Tracer Dynamics and Turbulent Dispersion*. Proceedings of the NATO Advanced Research Workshop and EGS Topical Workshop on Chaotic Advection, Tracer Dynamics, and Turbulent Dispersion, Conf. Center Sereno di Gavi, Italy, 24-28 May, 1993. North-Holland, Amsterdam.
- Bailey, N.T.J., 1964. *The Elements of Stochastic Processes with Applications to the Natural Sciences*. John Wiley & Sons, Inc., New York.
- Bai-Lin, Hao, 1984. *Chaos*. World Scientific Publishing, Co., Singapore. ISBN 9971-966-51-4.
- Baker, Gregory L., and Jerry P. Gollub, 1990. *Chaotic Dynamics: An Introduction*. Cambridge University Press, Cambridge. ISBN 0-521-38897.
- Baker, Robert M., 1967. *Astrodynamics: Applications and Advanced Topics*. Academic Press, London.
- Balian, Roger and Jean Zinn-Justin (Eds.), 1976. *Methods in Field Theory*. North-Holland Publishing Company, Amsterdam. ISBN 0-7204-0433-9.
- Ball, Philip, 1999. *The Self-made Tapestry: Pattern Formation in Nature*. Oxford University Press, Oxford. ISBN 0-19-850244-3.
- Balmforth, N.J., and A. Provezale (Eds.), 2001. *Geomorphological Fluid Mechanics*. Springer, Heidelberg. ISBN 3-540-42968-9.
- Bartlett, James H., 1975. *Classical and Modern Mechanics*. The University of Alabama Press, ISBN 0-8173-3100-X.
- Baumjohann, Wolfgang, and Rudolf A. Treumann, 1997. *Basic Space Plasma Physics*. Imperial College Press, London. ISBN 1-86094-079-X.
- Bedford, A., 1985. *Hamilton's principle in continuum mechanics*. Pitman Publishing London. ISBN 0-273-08730-4.
- Belinfante, Johan G.F., and Bernard Kolman, 1972 . *A Survey of Lie Groups and Lie Algebras with Applications and Computational Methods*. Society for Industrial and Applied Mathematics, Philadelphia.
- Bell, J.S., 1987. *Speakable and Unspeakable in Quantum Mechanics*. Cambridge University Press, Cambridge. ISBN 0-521-33495-0.
- Bergè, Pierre, Yves Pomeau, and Christian Vidal, 1984. *L'ordre Dans le Chaos: Vers Une Approche Dèterministe de la Turbulence*. Hermann, Paris.
- Bergmann, Peter Gabriel, 1962. *Basic Theories of Physics: Heat and Quanta*. Dover Publications, New York.
- Bergmann, Peter Gabriel, 1962. *Basic Theories of Physics: Mechanics and Electrodynamics*. Dover Publications, New York.
- Bernstein, Jeremy, 1988. *Kinetic Theory in the Expanding Universe*. Cambridge University Press, Cambridge. ISBN 0-521-36050-1.

- Biedenharn, L.C., and H. Van Dam, 1965. Quantum Theory of Angular Momentum: A Collection of Reprints and Original Papers. Academic Press, New York.
- Binney, James, and Scott Tremaine, 1987. Galactic Dynamics. Princeton University Press, Princeton. ISBN 0-691-08444-0.
- Blumenthal, Leonard M., 1961. A Modern View of Geometry. Dover Publications, New York. ISBN 0-48663962-2.
- Born, M., 1960. The Mechanics of the Atom. Frederick Ungar Publishing Co., New York.
- Born, Max, 1948. Natural Philosophy of Cause and Chance. Clarendon Press Oxford.
- Born, Max, 1970. A Problem of Atomic Dynamics. The MIT Press, Cambridge. ISBN 0-262-52019-2.
- Börner, G., 1988. The Early Universe: Facts and Fiction. Springer-Verlag, Berlin. ISBN 3-540-16187-2.
- Bradshaw, P. (Ed.), 1976. Topics in Applied Physics: Turbulence. Volume 12. Springer-Verlag, Berlin. ISBN 3-540-07705-7.
- Brandenburg, Axel, and Kandaswamy Subramanian, 2005. Astrophysical Magnetic Fields and Nonlinear Dynamo Theory. *Physics Reports: A Review Section of Physics Letters*. Vol. 417, No.1-4.
- Brandt, John D., 1966. The Sun and the Stars. McGraw-Hill Book Company, New York.
- Brauer, F., and J.A. Nohel, 1969. The Qualitative Theory of Ordinary Differential Equations. W.A. Benjamin, Inc., Menlo Park.
- Brauer, F., and J.A. Nohel, 1973. Ordinary Differential Equations: A First Course. W.A. Benjamin, Menlo Park. ISBN 0-8053-1208-0.
- Bray, R.J., and R.E. Loughhead, 1967. The Solar Granulation. The International Astrophysics Series, Vol. 8. Chapman and Hall, Ltd., London.
- Breuer, Joseph, 1958. Introduction to the Theory of Sets. Prentice-Hall, Englewood Cliffs.
- Brittin, W.E., and H. Odabasi (Eds.), 1971. Topics in Modern Physics: A Tribute to Edward U. Condon. Colorado Associated University Press, Boulder.
- Broadfoot, M.W, 1886. The Badminton Library of Sports and Pastimes: Billiards. Longmans, Green, and Co., London.
- Brown, Ernest W., and Clarence A. Shook, 1964. Planetary Theory. Dover Publications, Inc., New York.
- Buchler J.R., S.T. Gottesman, and H.E. Kandrup (Eds.), 1998. Nonlinear Dynamics and Chaos in Astrophysics: A Festschrift in Honor of George Contopoulos. Annals of the New York Academy of Sciences, Vol. 867. ISBN 1-57331-163-4
- Buchler, J. Robert, and Henry Kandrup, 2000. Astrophysical Turbulence and Convection. Annals of the New York Academy of Sciences, Volume 898. ISBN 1-57331-245-2.
- Buchler, J. Robert, James R. Ipser, Carol A. Williams (Eds.), 1988. Integrability in Dynamical Systems. Annals of the New York Academy of Sciences, Volume 536. The New York Academy of Sciences, New York.
- Buchler, J. Robert, S.T. Gottesman, and J.H. Hunter, Jr. (Eds), 1990. Galactic Models. The New York Academy of Sciences, New York. ISBN 0-89766-578-3.
- Buchler, J.R., and S.T. Gottesman (Eds.), 1990. Nonlinear Astrophysical Fluid Dynamics. Annals of the New York Academy of Sciences, Vol. 617. The New York Academy of Sciences, New York. ISBN 0-89766-629-1.

- Buchler, J.R., and S.T. Gottesman (Eds.), 1990. *Nonlinear Astrophysical Fluid Dynamics*. New York Academy of Sciences, New York. ISBN 0-89766-629-1.
- Busse, F.H., and L. Kramer (Eds.), 1990. *Nonlinear Evolution of Spatio-Temporal Structures in Dissipative Continuous Systems*. Plenum Press, New York. ISBN 0-306-43603-5.
- Callen, Herbert B., 1985. *Thermodynamics and an Introduction to Thermostatistics*. Second Edition. John Wiley & Sons, New York. ISBN 0-471-86256-8.
- Campbell, J.W., 1947. *An Introduction to Mechanics*. Pitman Publishing Corp., New York.
- Cantore, Enrico, 1969. *Atomic Order: An Introduction to the Philosophy of Microphysics*. The MIT Press, Cambridge. ISBN 0-262-03035-7.
- Castor, John, 2004. *Radiation Hydrodynamics*. Cambridge University Press, Cambridge. ISBN-10 0-521-54062-3.
- Chamberlain, Joseph W., 1961. *Physics of the Aurora and Airglow*. Academic Press, New York.
- Chandler, David, 1987. *Introduction to Modern Statistical Mechanics*. Oxford University Press, New York. ISBN 0-19-0504277.
- Chandrasekhar, S., 1939. *An Introduction to the Study of Stellar Structure*. Dover Publications, New York.
- Chandrasekhar, S., 1943. *Principles of Stellar Dynamics*. Dover Publications, New York.
- Chandrasekhar, S., 1950. *Radiative Transfer*. The International Monograph Series of Monographs on Physics. Clarendon Press, Oxford.
- Chandrasekhar, S., 1969. *Ellipsoidal Figures of Equilibrium*. Dover, New York. ISBN 0-486-65258-0.
- Chapman, S., and T.G. Cowling, 1961. *The Mathematical Theory of Non-Uniform Gases: An Account of the Kinetic Theory of Viscosity, Thermal Conduction, and Diffusion in Gases*. Cambridge University Press, New York.
- Chassignet, E.P., C. Cenedese, and J. Verron, 2012. *Buoyancy-Driven Flows*. Cambridge University Press, New York. ISBN 978-1-107-00887-8.
- Chen, Francis F., 1974. *Introduction to Plasma Physics*. Plenum Press, New York. ISBN 0-306-30755-3.
- Childress, Stephen, 2009. *An Introduction to Theoretical Fluid Mechanics, Courant Lecture Notes in Mathematics, 19*. American Mathematical Society. ISBN 978-0-8218-4888-3.
- Chinn, W.G., and N.E. Steenrod, 1966. *First Concepts of Topology. The Geometry of Mappings of Segments, Curves, Circles and Disks*. Random House, New York.
- Chiu, Hong-Yee, and Amador Muriel, 1972. *Stellar Evolution*. The MIT Press, Cambridge. ISBN 0-262-03043-8.
- Chiu, H-Y., 1968. *Stellar Physics*. Blaisdell Publishing, Co., Waltham.
- Chu, Hong-Yee, Robert L. Warasila, and John L. Remo, 1969. *Stellar Astronomy, Volume 2. Proceedings of the Summer Institute for Observational Astronomy, State University of New York at Stony Brook, Summer 1967*. Gordon and Breach Science Publishers, New York.
- Chupp, E.L., 1976. *Gamma Ray Astronomy: Nuclear Transition Region*. D. Reidel Publishing, Dordrecht. ISBN 90-277-0695-6.
- Churchill, R.V., and J.W. Brown, 1984. *Complex Variables and Applications*. McGraw-Hill Book Co., New York. ISBN 0-07-010873-0.

- Clayton, D.D., 1975. *The Dark Night Sky: A Personal Adventure in Cosmology*. Quadrangle/The New York Times Book Co. New York. ISBN 0-8129-0585-7.
- Collett, Pierre, and Jean-Pierre Eckmann, 1990. *Instabilities and Fronts in Extended Systems*. Princeton Series in Physics. Princeton University Press, Princeton. ISBN 0-691-08568-4.
- Combes, J.M., A. Grossmann, and Ph. Tchamitchian (Eds.), 1989. *Wavelets: Time-Frequency Methods and Phase Space*. Springer-Verlag, Berlin. ISBN 3-540-51159-8.
- Condon, E.U., and G.H Shortley, 1953. *The Theory of Atomic Spectra*. Cambridge University Press, London.
- Constantin, Peter, and Ciprian Foias, 1988. *Navier-Stokes Equations*. The University of Chicago Press, Chicago. ISBN 0-226-11548-8.
- Coppel, W.A., 1965. *Stability and Asymptotic Behavior of Differential Equations*. D.C. Heath and Company, Boston.
- Corson, E.M., 1954. *Introduction to Tensors, Spinors and Relativistic Wave-Equations (Relation Structure)*. Blackie & Son, Ltd., Glasgow.
- Courant, R., 1950. *Differential and Integral Calculus*. Interscience Publishers, Inc., New York.
- Courant, Richard, and Herbert Robbins, 1941. *What is Mathematics? An Elementary Approach to Ideas and Methods*. Oxford University Press, London.
- Cronin, Jeremiah A., David F. Greenberg, and Valentine L. Telegdi, 1967. *University of Chicago Graduate Problems in Physics with Solutions*. Addison-Wesley Publishing Co., Reading.
- Cundy, H.M., and A.P. Rollett, 1961. *Mathematical Models*. Clarendon Press, Oxford.
- Dalitz, R.H., 1962. *Strange Particles and Strong Interactions*. Oxford University Press, Glasgow.
- Davidson, J.F., and D. Harrison, 1963. *Fluidised Particles*. Cambridge University Press, London.
- Davies, P.C.W., 1977. *The Physics of Time Assymetry*. University of California Press, Berkeley. ISBN 0-520-03247-0.
- Davies, Robert (Ed.), 1964. *Cavitation in Real Liquids*. Proceedings of the Symposium on Cavitation in Real Liquids. Elsevier, Amsterdam.
- Davison, B., 1957. *Neutron Transport Theory*. Oxford University Press, London.
- Davydov, A.S., 1965. *Quantum Mechanics*. Addison-Wesley, Reading.
- De Boer, J.D., and Uhlenbeck, G.E. (Eds.), 1970. *Studies in Statistical Mechanics*. Volume V. North-Holland Publishing Company, Amsterdam.
- De Gennes, Pierre-Gilles, and Jcques Badoz, 1996. *Fragile Objects*. Copernicus, Springer-Verlag, New York. ISBN 0-387-94774-4.
- de Jager, Cornelis, 1980. *The Brightest Stars*. D. Reidel Publishing Co., Dordrecht. ISBN 90-277-1109-7.
- De Zeeuw, Tim, 1956. *Dynamics of Triaxial Stellar Systems*.
- Debye, P., 1945. *Polar Molecules*. Dover Publications, New York.
- Dermott, S.F., J.H. Hunter, and R.E. Wilson (Eds.), 1992. *Astrophysical Disks*. Annals of the New York Academy of Sciences, Volume 675. The New York Academy of Sciences, New York. ISBN0-89766-740-9.

- DeWitt, C., B.S. DeWitt (Eds.), 1973. Black Holes. Gordon and Breach Science Publishers, New York. ISBN 0-677-156610-3.
- Dicke, Robert H., and James P. Wittke, 1960. Introduction to Quantum Mechanics. Addison-Wesley, Reading. ISBN 0-201-01510-2.
- Dimca, A., 1987. Topics on Real and Complex Singularities: An Introduction. Friedr. Vieweg & Soh, Braunschweig. ISBN3-528-08999-7.
- Dold, A., and B. Eckman (Eds.), 1976. Lecture Notes in Mathematics: Turbulence and Navier Stokes Equations. Proceedings of the Conference Held at the University of Paris-Sud, Orsay, June 12-13, 1975. Springer-Verlag, Berlin. ISBN 0-387-08060-0.
- Donnelly, R.J., 1967. Experimental superfluidity. The University of Chicago Press, Chicago.
- Donnelly, R.J., 1991. Quantized Vortices in Helium II. Cambridge University Press, Cambridge. ISBN 0-521-32400-9.
- Donnelly, R.J., and K.R. Sreenivasan, 1998. Flow at Ultra-High Reynolds and Rayleigh Numbers. Springer, New York. ISBN 0-387-98544-1.
- Donnelly, Russell J. (Ed.), 1991. High Reynolds Number Flows Using Liquid and Gaseous Helium: Discussion of Liquid and Gaseous Helium as Test Fluids. Springer-Verlag, New York. ISBN 0-540-97475-x.
- Drazin, P.G., and R.S. Johnson, 1989. Solitons: An Introduction. Cambridge University Press, Cambridge. ISBN 0521-33655-4.
- Durney, Bernard R., and Sabatino Sofia, 1986. The Internal Solar Angular Velocity: Theory, Observations and Relationship to Solar Magnetic Fields. Proceedings of the 8th National Solar Observatory Summer Symposium Sunspot, NM, Volume 137. D. Reidel Publishing, Dordrecht. ISBN 90-277-2523-3.
- Dyson Freeman J., 1966. Symmetry Groups in Nuclear and Particle Physics. W.A. Benjamin, Inc., New York.
- Eden, R.J., J.C Polkinghorne, G. Källén, and J.J. Sakurai, 1961. Lectures in Theoretical Physics. W.A. Benjamin, Inc., New York.
- Einstein, A., 1950. Out of My Later Years. Philosophical Library, New York.
- Einstein, Albert, 1955. The Meaning of Relativity, Fifth Edition. Relativistic Theory of the Non-Symmetric Field. Princeton University Press, Princeton.
- Enz, Charles P., 2002. No Time to be Brief: A Scientific Biography of Wolfgang Pauli. Oxford University Press, Oxford. ISBN 0-19-856479-1.
- Faddeev, L.D., and A.A. Slavnov, 1991. Gauge Fields: Introduction to Quantum Theory. Second Edition. Addison Wesley, Redwood City. ISBN 0-201-52472-4.
- Fang, Li Zhi, and Remo Ruffini, 1985. Galaxies, Quasars and Cosmology. World Scientific Publishing Co., Ltd. ISBN 9971-978-93-8.
- Feinberg, Gerald, A.W. Sunyar, I. Weneser (Eds.), 1980 A Festschrift for Maurice Goldhaber. Transactions of the New York Academy of Sciences, Series II, Volume 40. The New York Academy of Sciences, New York. ISBN 0-89766-086-2
- Fermi, Enrico, 1949. Nuclear Physics: A Course Given by Enrico Fermi at the University of Chicago. University of Chicago Press, Chicago.

- Fermi, Enrico, 1961. Notes on Quantum Mechanics: A Course Given by Enrico Fermi at the University of Chicago, 1961. The University of Chicago Press, Chicago.
- Feynman, R.P., & Weinberg, S., 1989. Elementary Particles and the Laws of Physics. The 1986 Dirac Memorial Lectures. Cambridge University Press, Cambridge. ISBN 0-521-34000-4.
- Feynman, R.P., 1961. Quantum Electrodynamics. W.A. Benjamin, New York.
- Feynman, R.P., 1972. Statistical Mechanics, A Set of Lectures. W.A. Benjamin, Reading.
- Fiedler, H. (Ed.), 1978. Lecture Notes in Physics: Structure and Mechanisms of Turbulence II. Proceedings of the Symposium on Turbulence held at the Technische Universität Berlin, August 1-5, 1977. Springer-Verlag, Berlin. ISBN 3-540-08767-2.
- Fiedler, H., (Ed.), 1978. Lecture Notes in Physics: Structure and Mechanisms of Turbulence I. Proceedings of the Symposium on Turbulence held at the Technische Universität Berlin, August 1-5, 1977. Springer-Verlag, Berlin. ISBN 3-387-08765-6.
- Ford, L.R., 1933. Differential Equations. McGraw-Hill Book Co., New York.
- Fowles, Grant R., 1962. Analytical Mechanics. Holt, Rinehart and Winston, Inc., New York.
- Frank, Juhan, Andrew King, and Derek Raine, 1992. Accretion Power in Astrophysics. University of Cambridge, Cambridge. ISBN 0-521-40306-5.
- Frazier, Kendrick, 1982. Our Turbulent Sun: The Scientific Quest for a New Understanding of Our Sun and its Surprising Irregularities, Variations and Effects. Prentice-Hall, Englewood Cliffs. ISBN 0-13-644492-X.
- Friedlander, S.K., and Leonard Topper (Eds.), 1961. Turbulence: Classic Papers on Statistical Theory. Interscience Publishers, New York.
- Friedrichs, K.O., 1965. From Pythagoras to Einstein. Random House.
- Frisch, Uriel, 1995. Turbulence: The Legacy of A.N. Kolmogorov. Cambridge University Press, Cambridge. ISBN 0-521-45713-0.
- Fry, J.N., J. R. Buchler, and H. Kandrup (Eds.), 2001. The Onset of Nonlinearity in Cosmology. The New York Academy of Sciences, New York. ISBN 1-57331-324-6.
- Galdi, G.P., and B. Straughan (Eds.), 1988. Energy stability and convection. Proceedings of the workshop, Capri. John Wiley & Sons, New York. ISBN 0-470-21005-2.
- Gelfand I.M., and S.V. Fomin, 1963. Calculus of Variations. Prentice-Hall, Englewood Cliffs.
- Georgi, Howard, 1993. The Physics of Waves. Prentice Hall, Englewood Cliffs. ISBN 0-13-665621-8.
- Gerach, Robert, 1978. General Relativity from A to B. The University of Chicago Press, Chicago. ISBN 0-226-28863-3.
- Ghyka, Matila, 1977. The Geometry of Art and Life. Dover Publications, Inc., New York.
- Gilder, Louisa, 2008. The Age of Entanglement: When Quantum Physics was Reborn. Vintage Books, New York.
- Gilder, Louisa, 2008. The Age of Entanglement: When Quantum Physics was Reborn. Alfred A. Knopf, New York. ISBN 978-1-4000-4417-7.
- Gilman, John J., 1969. Micromechanics of Flow in Solids. McGraw-Hill, New York.

- Giovannelli, Franco (Ed.), 1999. *The Bridge Between the Big Bang and Biology. Stars, Planetary Systems, Atmospheres, Volcanoes: Their Link to Life.* International Workshop, Stromboli, Italy, September 13-17, 1999.
- Giraud, Alain, and Michel Petit, 1978. *Ionospheric Techniques and Phenomena.* D. Reidel Publishing Co. Dordrecht. ISBN 90-277-0499-6.
- Glassgold, A.E., P.J. Huggins, and E.L. Schucking (Eds.), 1982. *Symposium on the Orion Nebula, To Honor Henry Draper.* New York Academy of Sciences, New York. ISBN 0-89766-181-8.
- Goldman, Stanford, 1953. *Information Theory.* Dover Publications, Inc., New York.
- Goldsmith, Donald, 1976. *The Universe.* W.A. Benjamin, Inc., Menlo Park. ISBN 0-8053-3324-X.
- Goldstein, Herbert, 1981. *Classical Mechanics, Second Edition.* Addison-Wesley, Reading. ISBN 0-201-02918-9.
- Goldstein, S. (Ed.), 1965. *Modern Development in Fluid Dynamics: An Account of Theory and Experiment Relating to Boundary Layers, Turbulent Motion, and Wakes, Volume II.* Dover Publications, New York.
- Goldstein, S. (Ed.), 1965. *Modern Development in Fluid Dynamics: An Account of Theory and Experiment Relating to Boundary Layers, Turbulent Motion, and Wakes, Volume I.* Dover Publications, New York.
- Gotsman, E., and G. Tauber, 1985. *From SU(3) to Gravity.* Cambridge University Press, Cambridge. ISBN 0-521-30784-8
- Gottfried, Kurt, 1966. *Quantum Mechanics.* W. A. Benjamin, Inc.
- Gray, D.F., and J.L. Linsky (Eds.), 1980. *Lecture Notes in Physics: Stellar Turbulence. Proceedings of Colloquium 51 of the International Astronomical Union held at the University of Western Ontario, London, Ontario, Canada, August 27-30, 1979.* Springer-Verlag, Berlin. ISBN 0-38709737-6.
- Grayson, H.W., 1978. *The Theory of Relativity Revisited.* Dorrance & Company, Philadelphia. ISBN 0-8059-2529-5
- Greiner, W., and B. Müller, 1989. *Quantum Mechanics: Symmetries.* Springer-Verlag, Berlin. ISBN 3-540-19201-8.
- Gribbin, John, 1998. *Q is for Quantum: An Encyclopedia of Particle Physics.* The Free Press, New York. ISBN 0-684-85578-X.
- Guggenheim, E.A., 1949. *Thermodynamics: An Advanced Treatment for Chemists and Physicists.* North-Holland Publishing Company, Amsterdam.
- Guidry, Mike, 1991. *Gauge Field Theories: An Introduction with Applications.* John Wiley & Sons, Inc., New York. ISBN 0-47163117-5.
- Guth, Alan H., Kerson Huang, and Robert L. Jaffe (Eds.), 1983. *Asymptotic Realms of Physics, Essays in Honor of Francis E. Low.* The MIT Press, Cambridge, MA, ISBN 0-262-07089-8
- Gutzwiller, Martin C., 1990. *Chaos in Classical and Quantum Mechanics.* Springer-Verlag, New York. ISBN 0-387-97173-4.
- Haken, H., 1978. *Synergetics: An Introduction, Non Equilibrium Phase Transitions and Self-Organization in Physics, Chemistry and Biology.* 2nd Edition. Springer-Verlag, Heidelberg. ISBN 0-387-08866-0
- Halds , A., 1962. *Statistical Theory with Engineering Applications.* A Wiley Publication in Applied Statistics. John Wiley and Sons, Inc., New York.

- Hall, D.W., and G.L. Spencer II, 1955. *Elementary Topology*. John Wiley & Sons, New York.
- Halmos, P., 1956. *Lectures on Ergodic Theory*. Chelsea Publishing Company, New York.
- Hamermesh, M., 1962. *Group Theory and its Application to Physical Problems*. Addison-Wesley Publishing Co., Reading.
- Hansen, C.J., and S.D. Kawaler, 1994. *Stellar Interiors: Physical Principles, Structure, and Evolution*. Springer-Verlag, New York. ISBN 0-387-94138-X.
- Hansen, Carl J., and Steven D. Kawaler, 1995. *Stellar Interiors: Physical Principles, Structure, and Evolution*. Springer-Verlag, NEW YORK. ISBN 0-387-94138-X.
- Hawking, Stephen W., 1988. *A Brief History of Time: From the Big Bang to Black Holes*. Bantam Books, Toronto. ISBN 0-553-05340-X.
- Heintz, Wulff D., *Double Stars*. D. Reidel Publishing Co., Dordrecht. ISBN 90-277-0885-1.
- Heisenberg, W., 1953. *Nuclear Physics*. Philosophical Library, Inc. New York.
- Herring, Jackson R., and James C. McWilliams (Eds.), 1989. *Lecture Notes on Turbulence: Lecture Notes from the NCAR-GTP Summer School, June 1987*. World Scientific, Singapore. ISBN 9971-50-805-2.
- Hodge, Philip G., Jr., 1970. *Continuum Mechanics*. McGraw-Hill, New York.
- Hoel, P.G., 1947. *Introduction to Mathematical Statistics*. John Wiley & Sons, Inc., London.
- Hoffman, Banesh, 1959. *The Strange Story of the Quantum: An Account for the General Reader of the Growth of the Ideas Underlying our Present Atomic Knowledge*. Dover Publications, Inc., New York.
- Holland, Peter R., 1993. *The Quantum Theory of Motion: An Account of the de Broglie-Bohm Causal Interpretation of Quantum Mechanics*. Cambridge University Press, New York. ISBN 0-521-35404-8.
- Holton, James R., 1972. *An Introduction to Dynamic Meteorology*. Academic Press, New York.
- Hora, Heinrich, 1979. *Nonlinear Plasma Dynamics at Laser Irradiation*. Springer-Verlag, Berlin. ISBN 0-387-09502-0.
- Hosmer, George L., 1948 *Practical Astronomy: A Textbook for Engineering Schools and a Manual of Field Methods*. John Wiley & Sons, New York.
- Hu, S.-T., 1965. *Elements of Modern Algebra*. Holden-Day, Inc., San Francisco.
- Hughes, R.I.G., 1989. *The Structure and Interpretation of Quantum Mechanics*. Harvard University Press, Cambridge. ISBN 0-674-84391-6.
- Hwa, Rudolph C., and Vigdor L. Teplitz, 1966. *Homology and Feynman Integrals*. W.A. Benjamin, Inc., New York.
- Iooss, Gérard, and Daniel D. Joseph, 1980. *Elementary Stability and Bifurcation Theory*. Springer-Verlag, New York. ISBN 0-387-90526-X.
- Jammer, Max, 1954. *Concepts of Space: The history of Theories of Space in Physics*. Harvard University Press, Cambridge.
- Jänich, Klaus, 1984. *Topology*. Springer-Verlag, New York. ISBN 0-387-90892-7.
- Jardetzky, Wenceslas S., 1958. *Theories of Figures of Celestial Bodies*. Interscience Publishers, New York.

- Jauch, J.M., and F. Rohrlich, 1955. *The Theory of Photons and Electrons: The Relativistic Quantum Field Theory of Charged Particles with Spin One-Half*. Addison-Wesley, Reading.
- Jeans, J., 1968. *Science & Music*. Dover Publications, New York. ISBN 0-486-61964-8.
- Jeans, J.H., 1919. *Problems of Cosmology and Stellar Dynamics*. Cambridge University Press, London.
- Jeans, J.H., 1954. *The Dynamical Theory of Gases*. Dover Publications, Inc., New York.
- Jeffreys, Harold, 1957. *Cartesian Tensors*. Cambridge University Press, Cambridge.
- Jenkins, Francis A., and Harvey E. White, 1950. *Fundamentals of Optics*. McGraw-Hill, New York.
- John, F., 1982. *Partial Differential Equations*. Springer-Verlag, New York. ISBN 0-387-90609-6.
- Joos, Georg, 1956. *Theoretical Physics*. Blackie and Son, Ltd, London.
- Jou, D., J. Casas-Vásquez, and G. Lebon, 1998. *Extended Irreversible Thermodynamics*. Springer, Berlin. ISBN 3-540-55874-8.
- K.S. Thorne, 1994. *Black Holes and Time Warps: Einstein's Outrageous Legacy*. W.W. Norton & Co., New York. ISBN 0-393-03505-0.
- Kadanoff, Leo P., and Gordon Baym, 1962. *Quantum Statistical Mechanics: Green's Function Methods in Equilibrium and Nonequilibrium Problems*. Addison-Wesley Publishing, Inc., Redwood City. ISBN 0-201-09422-3.
- Kaempffer, F.A., 1965. *Concepts in Quantum Mechanics*. Academic Press, New York.
- Kandal, Eric R., 2006. *In Search of Memory: The Emergence of a New Science of Mind*. W.W. Norton & Co., New York. ISBN 0-393-05863-8.
- Kane, Gordon, 1987. *Modern Elementary Particle Physics*. Addison-Wesley Publishing Company, Inc., Redwood City. ISBN 0-201-11749-5.
- Kaplan, S.A., 1966. *Interstellar Gas Dynamics, 2nd Edition*. Pergamon Press, London.
- Katz, Amnon, 1967. *Principles of Statistical Mechanics: The Information Theory Approach*. W.H. Freeman and Company, San Francisco.
- Kaufmann, William J. III, 1979. *Black Holes and Warped Spacetime*. W.H. Freeman and Company, San Francisco. ISBN 0-7167-1153-2.
- Kauzmann, Walter, 1967. *Thermodynamics and Statistics: With Applications to Gases*. Volume II of *Thermal Properties of Matter*. W.A. Benjamin, Inc., New York.
- Keller, Joseph B., and Stuart Antman, 1969. *Bifurcation Theory and Nonlinear Eigenvalue Problems*. W.A. Benjamin, New York.
- Khinchin, A.I. and G. Gamow, 1949. *Mathematical Foundations of Statistical Mechanics*. Dover Publications, New York.
- Kippenhahn, R., and A. Weigert, 1990. *Stellar Structure and Evolution*. Springer-Verlag, Berlin. ISBN 3-540-50211-4.
- Kittel, C., 1958. *Elementary Statistical Physics*. John Wiley & Sons, New York.
- Kline, Morris, 1963. *Mathematics and the Physical World*. Doubleday & Co., New York.

- Kourganoff, V., 1952. Basic Methods in Transfer Problems: Radiative Equilibrium and Neutron Diffusion. Oxford University Press, London.
- Krall, Nicholas A., and Alvin W. Trivelpiece, 1973. Principles of Plasma Physics. McGraw-Hill Book Co., New York. ISBN 0-07-035346-8.
- Krause, F., and K.H. Rädler, 1980. Mean-Field Magnetohydrodynamics and Dynamo Theory. Pergamon Press. ISBN 0-08-025041-6.
- Kuiper, Gerard P., 1953. The Sun. The University of Chicago Press, Chicago.
- Kumar, Shiv S. (Ed.), 1969. Low-luminosity Stars. Gordon and Breach, New York.
- Lagerstrom, P.A., 1988. Matched Asymptotic Expansions: Ideas and Techniques. Springer-Verlag, New York. ISBN 0-387-96811-3.
- Lamb, H., 1951. Dynamics. Cambridge University Press, London.
- Lamers, Henny J.G.L.M. and Joseph P. Cassinelli, 1999. Introduction to Stellar Winds. Cambridge University Press, Cambridge. ISBN 0-521-593398.
- Lanczos, C., 1970. The Variational Principles of Mechanics. University of Toronto Press, Toronto. ISBN 0-8020-1743-6.
- Landahl, M.T., and E. Mollo-Christensen, 1992. Turbulence and Random Processes in Fluid Mechanics. Cambridge University Press, Cambridge. ISBN 0-521-42213-2.
- Landau, L., and Lifchitz, E., (year?). Mécanique. Editions de La Paix, Moscow.
- Landau, L.D., and E.M. Lifshitz, 1980. Course of Theoretical Physics, Volume 5. Statistical Physics, Part I. Pergamon Press, Oxford. ISBN 0-08-023038-5.
- Landau, L.D., and E.M. Lifshitz, 1980. Course of Theoretical Physics, Volume 9. Statistical Physics, Part 2. Pergamon Press, Oxford. ISBN 0-08-023038-5. ISBN 0-08-023072-5.
- Landau, L.D., and E.M. Lifshitz, 1982. Quantum Electrodynamics. Course of Theoretical Physics, Volume 4. Pergamon Press, Oxford. ISBN 0-08-026503-0.
- Landau, LD., and E.M. Lifshitz, 1965. Quantum Mechanics: Non-Relativistic Theory. Pergamon Press London.
- Lane, Cecil, 1962 Superfluid Physics. McGraw-Hill, New York.
- Lang, S., 1984. Algebra. Addison-Wesley Publishing, Redwood City. ISBN 0-201-05487-6.
- Lang, Serge, 1971. Basic Mathematics. Addison-Wesley, Reading.
- Lass, Harry, 1950. Vector and Tensor Analysis. McGraw-Hill Book Co., New York.
- Lebedev, N.N., I.P. Skalskaya, Y.S. Uflyand, 1965. Problems of Mathematical Physics. Prentice-Hall, Inc., Englewood Cliffs.
- Leslie, D.C., 1973. Developments in the Theory of Turbulence. Clarendon Press, Oxford. ISBN 0-19-856318-3.
- Lieber, L.R., and H.G. Lieber, 1945. The Einstein Theory of Relativity: A Trip to the Fourth Dimension. J.J. Little & Ives, Co., New York.
- Liepmann, Hans Wolfgang and Allen E. Puckett, 1947. Introduction to Aerodynamics of a Compressible Fluid. John Wiley, London.

- Lighthill, James, 1986. *An Informal Introduction to Theoretical Fluid Mechanics*, Clarendon Press, Oxford. ISBN 0-19-853630-5.
- Lighthill, M.J., 1960. *Higher Approximations in Aerodynamic Theory*. Princeton University Press, Princeton.
- Lilley, Sam, 1981. *Discovering Relativity for Yourself*. Cambridge University Press, Cambridge. ISBN 0-521-29780.
- Lindelöf, E., 1947. *Calcul des Résidus et Ses Applications. A la Théorie des Fonctions*. Chelsea Publishing Company, New York.
- Lipkin, Harry J., 1988. *Quantum Mechanics: New Approaches to Selected Topics*. North-Holland, Amsterdam. ISBN 0-444-87010-5.
- London, Fritz, 1961. *Superfluids, Volume I. Macroscopic Theory of Superconductivity*. Dover Publications, New York. ISBN 0-486-60044-0.
- Lorrain, Paul, and Dale Corson, 1970. *Electromagnetic Fields and Waves, Second Edition*. W.H. Freeman and Co., San Francisco.
- Lumley, John L., 1970. *Stochastic Tools in Turbulence*. Academic Press, New York.
- Lumley, John L., and Hans A. Panofsky, 1964. *The Structure of Atmospheric Turbulence*. Interscience Publishers, New York.
- Luneburg, R.K., 1966. *Mathematical Theory of Optics*. University of California Press, Berkeley.
- Lyusternik, L.A., 1963. *Convex Figures and Polyhedra*. Translated from the Russian by T. Jefferson Smith. Dover Publications, Inc., New York.
- Mach, E., 1989. *The Science of Mechanics: A Critical and Historical Account of its Development*. The Open Court Publishing Company, La Salle. ISBN 0-87548-202-3.
- Magnus, Wilhelm, and Stanley Winkler, 1966. *Hill's Equation*. Interscience Publishers, New York.
- Mandl, F., 1988. *Statistical Physics*. John Wiley & Sons, Chichester. ISBN 0-471-91533-5.
- Manneville, Paul, 1990. *Dissipative Structures and Weak Turbulence*. Academic Press, San Diego. ISBN 0-12-469260-5.
- Marsden, J.E., 1974. *Elementary Classical Analysis*. W.H. Freeman and Co., San Francisco. ISBN 0-71670452-8.
- Marsden, J.E., and M. McCracken, 1976. *The Hopf Bifurcation and its Applications*. Springer-Verlag, New York. ISBN 3-540-90200-7.
- Marshak, Robert E., 1952. *Meson Physics*. McGraw-Hill Book Company, Inc., New York.
- Mattuck, R.D., 1967. *A Guide to Feynman Diagrams to the Many-Body Problem*. McGraw-Hill, Maidenhead.
- Mattuck, Richard D., 1976. *A Guide to Feynman Diagrams in the Many-body Problem*. Dover Publications, New York. ISBN 0-486-67047-3.
- Maudlin, Tim, 1994. *Quantum Non-Locality and Relativity: Metaphysical Intimations of Modern Physics*. Blackwell, Oxford. ISBN 0-631-18609-3.
- McComb, W.D., 1992. *The Physics of Fluid Turbulence*. Clarendon Press, Oxford. ISBN 0-19-856256-X.
- McLennan, James A., 1989. *Introduction to Non-Equilibrium Statistical Mechanics*. Prentice-Hall, Englewood Cliffs, NJ, ISBN 0-13-4909623-3

- Mees, Alistair I., 1981. Dynamics of Feedback Systems. John Wiley & Sons, Ltd., Chichester. ISBN 0-471-27822-X.
- Mendelson, B., 1975. Introduction to Topology. Allyn and Bacon, Inc., Boston.
- Merritt, David (Ed.), 1989. Dynamics of Dense Stellar Systems. Cambridge University Press, Cambridge. ISBN 0-521-364329.
- Merzbacher, Eugen, 1961. Quantum Mechanics. John Wiley & Sons, New York.
- Messiah, Albert, 1966. Quantum Mechanics, Volume II. John Wiley & Sons, New York.
- Mihalas, D., and K.-H.A. Winkler (Eds.), 1986. Lecture Notes in Physics: Radiation Hydrodynamics in Stars and Compact Objects. Proceedings of Colloquium No. 89 of the International Astronomical Union held at Copenhagen University, June 11-20, 1995. Springer-Verlag, Berlin. ISBN 3-540-16764-1.
- Moffatt, H.K., G.M. Zaslavsky, P. Comte, and M. Tabor, 1992. Topological Aspects of the Dynamics of Fluids and Plasmas. Kluwer Academic Publishers, Dordrecht. ISBN 0-7923-1900-1.
- Møller, C., 1952. The Theory of Relativity. Oxford University Press, London.
- Montgomery, D.C., and D.A. Tidman, 1964. Plasma Kinetic Theory. McGraw-Hill, Inc., New York.
- Moss, Frank, and P.V.E. McClintock (Eds.), 1989. Noise in Nonlinear Dynamical Systems. Volume 1, Theory of Continuous Fokker-Planck Systems. Cambridge University Press, Cambridge. ISBN 0-521-35228-2.
- Motz, Lloyd (Ed.), 1977. A Festschrift for I.I. Rabi. Transactions of the New York Academy of Sciences, Series II, Volume 38. The New York Academy of Sciences, NY, ISBN 0-89072-060-6
- Moulton, Forest Ray, 1964. An Introduction to Celestial Mechanics. The Macmillan Company, New York.
- Nahikian, Howard M., 1966. Topics in Modern Mathematics. Macmillan Co., New York.
- Nash, C., and Sen, S., 1983. Topology and Geometry for Physicists. Academic Press, San Diego. ISBN 0-12-514081-9.
- Newton, Roger G., 2000. Thinking About Physics. Princeton University Press, Princeton, NJ, ISBN 0-691-00920-1.
- Oberhettinger, F., 1957. Tabellen zur Fourier Transformation. Springer-Verlag, Berlin.
- Ohanian, Hans C., 1976. Gravitation and Spacetime. W.W. Norton & Co., New York. ISBN 0-393-09198-8.
- Okun', L.B., 1965. Weak Interaction of Elementary Particles. Addison-Wesley, Reading.
- Oldham, Keith B., and Jerome Spanier, 1974. The Fractional Calculus: Theory and Applications of Differentiation and Integration to Arbitrary Order. Academic Press, San Diego. ISBN 0-12-525550-0.
- Osterbrock, Donald E., 1989. Astrophysics of Gaseous Nebulae and Active Galactic Nuclei. University Science Books, Mill Valley. ISBN 0-935702-22-9.
- Panofsky, Wolfgang K.H., 1955. Classical Electricity and Magnetism. Addison-Wesley, Reading.
- Peacock, John A, 1999. Cosmological Physics. Cambridge University Press, Cambridge, UK. ISBN 0.521.42270.1
- Peatfield, A.E., 1972. Hand Tools: Descriptions and Uses. Teach Yourself Books, London. ISBN 0-340-05650-9.
- Pedlosky, Joseph, 1979. Geophysical Fluid Dynamics. Springer-Verlag, New York. ISBN 3-540-90368-2.
- Peierls, R.E., 1955. Quantum Theory of Solids. Oxford University Press, London.

- Peierls, Rudolf, 1979. Surprises in Theoretical Physics. Princeton University Press, Princeton. ISBN 0-691-08242-1.
- Peltier, W.R. (Ed.), 1989. Mantle Convection: Plate Tectonics and Global Dynamics. The Fluid Mechanics of Astrophysics and Geophysics, volume 4. Gordon and Breach, New York. ISBN 0-677-22120-7.
- Penrose, Roger, 2016. Fashion Faith, and Fantasy in the New Physics of the Universe. Princeton University Press, Princeton, NJ, ISBN 978-691-11979-3
- Pepin, R.O., J.A. Eddy, and R.B. Merrill (Eds.), 1980. The Ancient Sun: Fossil Record in the Earth, Moon and Meteorites. Proceedings of the Conference on The Ancient Sun: Fossil Record in the Earth, Moon and Meteorites, Boulder, Colorado, October 16-19, 1979. Pergamon Press, New York. ISBN 0-08-026324-0.
- Percival, Ian, and Derek Richards. 1982. Introduction to Dynamics. Cambridge University Press, Cambridge. ISBN 0-521-23680-0.
- Petit, M., 1982. Variable Stars. John Wiley & Sons, New York. ISBN 0-471-90920-3.
- Pfeffer, Robert, 1983. Fourth International Conference on Physicochemical Hydrodynamics Annals of the New York Academy of Sciences, Volume 404. New York Academy of Sciences, New York. ISBN 0-89766-201-6.
- Pines, David, 1961. The Many-Body Problem. W.A. Benjamin Inc., New York.
- Planck, Max, 1959. The Theory of Heat Radiation. Dover Publications, Inc., New York.
- Polyakov, A.M., 1987. Gauge Fields and Strings. Harwood Academic Publishers, Chur. ISBN 3-7186-0392-6.
- Prandtl, Ludwig, 1952. The Essentials of Fluid Dynamics. Blackie & Son, London.
- Press, William H., Brian P. Flannery, Saul A. Teukolsky, and William T. Vetterling, 1986. Numerical Recipes: The Art of Scientific Computing. Cambridge University Press. ISBN 0-521-30811-9.
- Priestley, C.H.B., 1959. Turbulent Transfer in the Lower Atmosphere. University of Chicago Press, Chicago.
- Proctor, M.R.E., and A.D. Gilbert (Eds.), 1994. Lectures on Solar and Planetary Dynamos. Cambridge University Press, Cambridge. ISBN 0-521-46704-7.
- Proctor, M.R.E., P.C. Matthews, and A.M. Rucklidge (Eds.), 1992. Solar and Planetary Dynamos. Proceedings of a NATO Advanced Study Institute, Cambridge. Cambridge University Press, Cambridge. ISBN 0-521-45470-0.
- Rabinovich, M.I., A.B. Ezersky, P.W. Weidman, 2000. The Dynamics of Patterns. World Scientific Publishing Co., Singapore. ISBN 981-02-4055-4.
- Rainville, E.D., 1943. Intermediate Course in Differential Equations. John Wiley & Sons, Inc., London.
- Ramond, Pierre, 1981. Field Theory: A Modern Primer. Benjamin Cummings Publishing, Reading. ISBN 0-8053-7893-6.
- Rasband, S. Neil, 1990. Chaotic Dynamics of Nonlinear Systems. John Wiley, New York. ISBN 0-471-63418-2.
- Regev, O., and Umurhan, O.M., 2010. Asymptotic Approximation Methods in Astrophysical Fluid Dynamics. Techniques and Example Applications. VDM Verlag Dr. Müller, Saarbrücken. ISBN 978-3-639-26025-0.
- Reichl, L.E., 1992. The Transition to Chaos in Conservative Classical Systems: Quantum Manifestations. Springer-Verlag, New York. ISBN 0-540-97753-8.

- Reid, W.H. (Ed.), 1971. *Mathematical Problems in the Geophysical Sciences. 2. Inverse Problems, Dyanamo Theory, and Tides.* Lectures in Applied Mathematics, volume 14. American Mathematical Society, Providence.
- Reinhardt, Greiner, 1994. *Quantum Electrodynamics, Second Edition.* Springer-Verlag, Berlin. ISBN 0-387-58092-1.
- Reiss, E.L., A.J. Callegari, and D.S. Ahluwalia, 1976. *Ordinary Differential Equations with Applications.* Holt, Rinehart, and Winston, New York. ISBN 0-03-085872-0.
- Richter, Arne K. (Ed.), 1998. *Understanding Physics.* Copernicus Gesellschaft e.V., Katlenburg-Lindau, Germany, ISBN 3-9804862-2-2
- Rieutord, M., and B. Dubrelle (Eds.), 2006. *Stellar Fluid Dynamics and Numerical Simulations: From the Sun to Neutron Stars.* EDP Sciences, Paris, France. ISBN 2-86883-928-2.
- Rieutord, M., and B. Dubrulle (Eds.), 2006. *Stellar Fluid Dynamics and Numerical Simulations: From the Sun to Neutron Stars.* EDP Sciences, Les Ulis. ISBN 2-86883-928-2.
- Ringwood, A.E., 1979. *Origin of the Earth and the Moon.* Springer-Verlag, New York. ISBN 0-387-90369-0.
- Riste, T. (Ed.), 1975. *Fluctuations, Instabilities, and Phase Transitions.* Plenum Press, New York. ISBN 0-306-35711-9
- Rojansky, Vladimir, 1979. *Electromagnetic Fields and Waves.* Dover Publications, New York. ISBN 0-486-63834-0.
- Rosseland, Svein, 1949. *The Pulsation Theory of Variable Stars.* Oxford University Press, London.
- Rothman, Daniel H., and Stéphane Zaleski, 1997. *Lattice-Gas Cellular Automata: Simple Models of Complex Hydrodynamics.* Cambridge University Press, Cambridge. ISBN 0-521-55201-x.
- Roxburgh, Ian W., and Jean-Louis Masnou, 1995. *Physical Processes in Astrophysics: Proceedings of a Meeting in Honour of Evry Schatzman Held in Paris, France, 22-24 September 1993.* Springer-Verlag, Berlin. ISBN 3-540-60259-3.
- Rybicki, George, and Alan P. Lightman, 1979. *Radiative Processes in Astrophysics.* John Wiley & Sons, New York. ISBN 0-471-04815-1.
- Sabra, A.I., 1981. *Theories of Light: From Descarte to Newton.* Cambridge University Press, Cambridge. ISBN 0-521-28436-8.
- Sagdeev, R.Z. (Ed.), 1986. *Nonlinear Phenomena in Plasma Physics and Hydrodynamics.* Mir Publishers, Moscow.
- Salby, Murry L., 1996. *Fundamentals of Atmospheric Physics, International Geophysics Series, Volume 61.* Academic Press, San Diego. ISBN 0-12-615160-1.
- Salmon, Rick, 1998 *Lectures on Geophysical Fluid Dynamics.* Oxford University Press, New York. ISBN 0-19-510808-6.
- Saxon, David S., 1968. *Elementary Quantum Mechanics.* Holden-Day, San Francisco.
- Schiff, Leonard I., 1955. *Quantum Mechanics.* McGraw-Hill, New York.
- Schrödinger, Erwin, 1957. *Statistical Thermodynamics: A Course of Seminar Lectures Delivered in Januar-March 1944 at the School of Theoretical Physics, Dublin Institute for Advanced Studies.* Cambridge University Press, London.

- Schwartz, Joseph, and Michael McGuinness, 1979. *Einstein for Beginners*. Pantheon Books, New York. ISBN 0-394-73801-2.
- Sellwood, J.A. (Ed.), 1989. *Dynamics of Astrophysical Discs. The Proceedings of a Conference at the Department of Astronomy, University of Manchester, 13-16 December 1988*. Cambridge University Press, Cambridge. ISBN 0-521-37485-5.
- Shipman, Harry L., 1976. *Black Holes, Quasars, and the Universe*. Houghton Mifflin Company, Boston. ISBN 0-39520615-4.
- Somjen, George G., 2004. *Ions in the Brain: Normal Function, Seizures, and Stroke*. Oxford University Press, New York. ISBN 0-190515171-2.
- Sommerfeld, Arnold, 1952. *Electrodynamics*. Academic Press, New York.
- Sommerfeld, Arnold, 1956. *Thermodynamics and Statistical Mechanics: Letters of Theoretical Physics, Vol. V*. Publisher unknown.
- Sparrow, C., 1982. *The Lorenz Equations: Bifurcations, Chaos, and Strange Attractors*. Springer-Verlag, New York. ISBN 3-540-90775-0.
- Spivak, Michael, 1965. *Calculus on Manifolds: A Modern Approach to Classical Theorems of Advanced Calculus*. The Benjamin/Cummings Publishing Co., Menlo Park. ISBN 0-8465-9021-9.
- Stachiewicz, W.M., 1973. *Copernicus and the Changing World*. The Polish Institute of Arts & Sciences in America, Inc., Montreal.
- Steeb, W.H., and N. Euler, 1988. *Nonlinear Evolution Equations and Painlevé Test*. World Scientific, Singapore. ISBN 9971-50-744-7.
- Steele, J.H., 1974. *The Structure of Marine Ecosystems*. Harvard University Press, Cambridge. ISBN 674-84420-3.
- Stehle, Philip, 1966. *Quantum Mechanics*. Holden-Day, Inc.
- Stern, Melvin E., 1975. *Ocean Circulation Physics*, International Geophysics Series, Academic press, New York. ISBN 0-12-666750-0.
- Stevenson, Richard, 1965. *Multiplet Structure of Atoms and Molecules*. W.B. Saunders, Philadelphia.
- Stewart, I., and Golubitsky, M., 1992. *Fearful Symmetry: Is God a Geometer?* Blackwell Publishers, Oxford. ISBN 0-631-18251-9.
- Stix, Michael, 1989. *The Sun: An Introduction*. Springer-Verlag Berlin. ISBN 3-540-50081-2.
- Stratonovich, R.L., 1963. *Topics in the Theory of Random Noise, Volume 1. General Theory of Random Processes Nonlinear Transformations of Signals and Noise*. Gordon and Breach Science Publishers, London.
- Stratonovich, R.L., 1967. *Topics in the Theory of Random Noise, Volume II, Peaks of Random Functions and the Effect of Noise on Relays Nonlinear Self-Excited Oscillation in the Presence of Noise*. Gordon and Breach, New York.
- Struik, Dirk J., 1950. *Lectures on Classical Differential Geometry*. Addison-Wesley Publishing, Reading.
- Strutt, John William, and Baron Rayleigh, 1945. *The Theory of Sound, Volume II*. Dover Publications, New York.
- Strutt, John William, and Baron Rayleigh, 1945. *The Theory of Sound, Volume I*. Dover Publications, New York.

- Struve, Otto, 1950. *Stellar Evolution: An Exploration from the Observatory*. Princeton University Press, Princeton.
- Sudbery, Anthony, 1986. *Quantum mechanics and the particles of nature. An outline for mathematicians*. Cambridge University Press, Cambridge, UK, ISBN 0-521-27765-5
- Sutton, O.G., 1949. *Atmospheric Turbulence*. Methuen & Co., London.
- Swinney, H.L., and J.P. Gollub (Eds.), 1981. *Topics in Applied Physics: Hydrodynamic Instabilities and the Transition to Turbulence*. Springer-Verlag, Berlin. ISBN 3-540-10390-2.
- Swinney, H.L., and J.P. Gollub, 1985. *Hydrodynamic Instabilities and the Transition to Turbulence*. Topics in Applied Physics, Volume 45. Springer-Verlag, Berlin. ISBN 0-387-133194-4.
- Synge, J.L., 1960. *Relativity: The General Theory*. North-Holland Publishing Company, Amsterdam.
- Tartar, Luc, 2008. *From Hyperbolic Systems to Kinetic Theory: A Personalized Quest*. Springer-Verlag, Berlin ISBN 978-3-540-77561-4.
- Tassoul, Jean-Louis, 1978. *Theory of Rotating Stars*. Princeton University Press, Princeton.
- Tatsumi, T. (Ed.), 1984. *Turbulence and Chaotic Phenomena in Fluids*. North-Holland, Amsterdam. ISBN 0-444-87594-8.
- Taylor, Edwin F., and John Archibald Wheeler 1966. *Spacetime Physics*. W.H. Freeman and Co., San Francisco.
- Taylor, J.C., 1976. *Gauge Theories of Weak Interactions*. Cambridge University Press, Cambridge. ISBN 0-521-20896-3.
- Temam, R., 1988. *Infinite-Dimensional Dynamical Systems in Mechanics and Physics*. Springer-Verlag, New York. ISBN 0-387-96638-2.
- Temam, Roger, 1983. *Navier-Stokes Equations and Nonlinear Functional Analysis*. Society for Industrial and Applied Mathematics, Philadelphia. ISBN 0-89871-183-5.
- ter Haar, D., 1965. *Men of Physics: L.D. Landau*. Pergamon Press, Oxford.
- The Structure and Evolution of Galaxies*, 1965. Proceedings of the Thirteenth Conference on Physics at the University of Brussels, September 1964. Interscience Publishers, London.
- Thom. R., 1975. *Structural Stability and Morphogenesis*. W. A Benjamin, Inc., Reading. ISBN 0-8053-9276-9.
- Thomas, Richard N. (Ed.), 1967. *Fifth Symposium on Cosmical Gas Dynamics: Aerodynamic Phenomena in Stellar Atmospheres*. Academic Press, New York.
- Thomas, Richard N., 1965. *Some Aspects of Non-Equilibrium Thermodynamics in the Presence of a Radiation Field*. University of Colorado Press, Boulder.
- Thompson, Michael J., and Jorgen Christensen-Dalsgaard, 2003. *Stellar Astrophysical Dynamics*. Cambridge University Press, Cambridge. ISBN 0-521-81809-5.
- Thompson, Philip A., 1972. *Compressible Fluid Dynamics*. McGraw-Hill, New York.
- Thouless, D.J., 1961. *The Quantum Mechanics of Many-Body Systems*. Academic Press, New York.
- Timoshenko, S., 1937. *Vibration Problems in Engineering*. Second Edition. D. Van Nostrand Company, New York.
- Ting, Lu., and Rupert Klein, 1991. *Lecture Notes in Physics: Viscous Vortical Flows*. Springer-Verlag, ISBN 0-387-53713-9.

- Titchmarsh, E.C., 1952. *The Theory of Functions*. Oxford University Press, Oxford.
- Tritton, D.J., 1988. *Physical Fluid Dynamics*, 2nd Edition. Clarendon Press, Oxford. ISBN 0-19-854489-8.
- Truesdell, C., 1954. *The Kinematics of Vorticity*. Indiana University Press, Bloomington.
- Truxal, John G. *Automatic Feedback Control System Synthesis*. McGraw-Hill, New York..
- Tucker, Wallace H., 1975. *Radiation Processes in Astrophysics*. MIT Press, Cambridge. ISBN 0-262-70010-7
- Tychonov, A.N., and A.A. Samarski, 1964. *Partial Differential Equations of Mathematical Physics, Volume I*. Holden-Day, Inc., San Francisco.
- Uhlenbeck, George E., and George W. Ford, 1963. *Lectures in Statistical Mechanics*. American Mathematical Society, Providence.
- Unsöld, Albrecht, 1969. *The New Cosmos*. Springer-Verlag, New York.
- Van Neumann, John, 1955. *Mathematical Foundations of Quantum Mechanics*. Princeton University Press, Princeton.
- Verschuur, Gerrit, 1977. *Starscapes: Topics in Astronomy*. Little, Brown, and Co., Boston.
- Vogel, Steven, 1981. *Life in Moving Fluids: The Physical Biology of Flow*. Willard Grant Press, Boston. ISBN 0-87150-749-8.
- Warner, Frank W., 1971. *Foundations of Differentiable Manifolds and Lie Groups*. Scott, Foresman and Co.
- Wasaburo, U., Y. Osaki, H. Ando, H. Saio, and H. Shibahashi, 1989. *Nonradial Oscillations of Stars, Second Edition*. University of Tokyo Press, Tokyo ISBN 0-86008-439-6.
- Weiland, J., and H. Wilhelmsson, 1977. *Coherent Non-linear Interaction of Waves in Plasmas*. Pergamon Press, Oxford. ISBN 0-08-020964-5.
- Weinberg, Steven, 1977. *The First Three Minutes: A Modern View of the Origin of the Universe*. Basic Books, Inc., New York. ISBN 0-465-02435-1.
- Weinberg, Steven, 1995. *The Quantum Theory of Fields. Volume I, Foundations*. Cambridge University Press, Cambridge. ISBN 0-521-55001-7.
- Weinreich, G., 1998. *Geometrical Vectors*. The University of Chicago Press, Chicago. ISBN 0-226-89048-1.
- Weiss, J.B., and A. Provenzale (Eds.), 2008. *Transport and Mixing in Geophysical Flows*. Springer, Berlin. eISBN 978-3-540-75215-8.
- Wentzel, Gregor, 1949. *Quantum Theory of Fields*. Publisher unknown.
- Wheeler, John Archibald, and Wojciech Hubert Zurek, 1983. *Quantum Theory and Measurement*. Princeton University Press, Princeton. ISBN 0-691-08316-9.
- Whittaker, E.T., 1944. *A Treatise on the Analytical Dynamics of Particles and Rigid Bodies*. Dover Publications, New York.
- Whittaker, E.T., and G.N. Watson, 1947. *A Course of Modern Analysis: An Introduction to the General Theory of Infinite Processes and of Analytic Functions; With an Account of the Principal Transcendental Functions*. Cambridge University Press, New York.
- Wilson, Peter R., 1994. *Solar and Stellar Activity Cycles*. Cambridge University Press, Cambridge. ISBN 0-521-43081.

- Wolf, A., 1961. A History of Science, Technology, and Philosophy in the 18th Century. Volume I. Harper & Brothers, New York.
- Woltjer, L., 1962. The Distribution and Motion of Interstellar Matter in Galaxies. W.A. Benjamin, Inc., New York.
- Woodcock, Alexander, and Monte Davis, 1978. Catastrophe Theory. E.P. Dutton, New York. ISBN 0-525-07812-6.
- Yaglom, A.M., 1962. An Introduction to the Theory of Stationary Random Functions. Dover Publications, New York.
- Yariv, Amnon, 1975. Quantum Electronics. 2nd Edition. John Wiley & Sons, New York. ISBN 0-471-97176-6.
- Zemansky, Mark W., 1964. Temperatures Very Low and Very High. Dover Publications, Inc., New York.
- Zeytounian, R.K., 1991. Meteorological Fluid Dynamics: Asymptotic Modelling, Stability and Chaotic Atmospheric Motion. Springer-Verlag, Berlin. ISBN 0-387-54446-1.
- Ziman, J.M., 1969. Elements of Advanced Quantum Theory. Cambridge University Press. Cambridge University Press, London.
- Ziman, J.M., 1979. Models of Disorder: The Theoretical Physics of Homogenously Disordered Systems. Cambridge University Press, Cambridge. ISBN 0-521-21784-9.
- Ziock, Klaus, 1969. Basic Quantum Mechanics. John Wiley & Sons, Inc., New York.
- Zippen, Leo, 1962. Uses of Infinity. Random House.
- Zurek, W.H., A. van der Merwe, W.A. Miller (Eds.), 1988. Between Quantum and Cosmos. Princeton University Press, Princeton. ISBN 0-691-08490-4.