

Bibliography

- Arnold, V. I. (1978). *Mathematical Methods of Classical Mechanics*. New York: Springer-Verlag.
- Benn, I. M. and Tucker, R. W. (1989). *An Introduction to Spinors and Geometry with Applications in Physics*. Bristol: Adam Hilger.
- Birkhoff, G. and Mac Lane, S. (1965). *A Survey of Modern Algebra*. New York: Macmillan Company, Inc.
- Chandrasekhar, S. (1983). *The Mathematical Theory of Black Holes*. New York: Clarendon.
- Crampin, M. and Pirani, F. A. E. (1987). *Applicable Differential Geometry*. Cambridge: Cambridge University Press.
- Dubrovin, B. A., Novikov, S. P. and Fomenko, A. T. (1984, 1985). *Modern Geometry: Methods and Applications*. New York: Springer-Verlag.
- Flanders, H. (1963). *Differential Forms (with Applications to Physical Sciences)*. New York: Academic Press (1989, New York: Dover Publications).
- Frankel, T. (2004). *The Geometry of Physics: an Introduction*. Cambridge: Cambridge University Press.
- Freund, P. G. O. (1986). *Supersymmetry*. Cambridge: Cambridge University Press.
- Fulton, W. and Harris, J. (1991). *Representation Theory (A First Course)*. New York: Springer-Verlag.
- Gelfand, I. M. (1961). *Lectures on Linear Algebra*. New York: Interscience Publishers.
- Göckeler, M. and Schücker, T. (1987). *Differential Geometry, Gauge Theories and Gravity*. Cambridge: Cambridge University Press.
- Goto, M. and Grosshans, F. D. (1978). *Semisimple Lie Algebras*. New York: Marcel Dekker, Inc.
- Hawking, S. W. and Ellis, G. F. R. (1973). *The Large Scale Structure of Space-time*. Cambridge: Cambridge University Press.
- Isham, Ch. J. (1989, 1999). *Modern Differential Geometry for Physicists*. Singapore: World Scientific.
- Lightman, A. P., Press, W. H., Price, R. H. and Teukolsky, S. A. (1975). *Problem Book in Relativity and Gravitation*. Princeton: Princeton University Press.
- Marathe, K. B. and Martucci, G. (1992). *The Mathematical Foundations of Gauge Theories*. Amsterdam: Elsevier Science Publishers.
- Marder, L. (1970). *Vector Analysis*. London: George Allen and Unwin Ltd.
- Marsden, J. E., Ratiu, T. and Abraham, R. (2001). *Manifolds, Tensor Analysis, and Applications*. New York: Springer-Verlag.

- Misner, Ch. W., Thorne, K. S. and Wheeler, J. A. (1973). *Gravitation*. San Francisco: Freeman.
- Nash, Ch. and Sen, S. (1992). *Topology and Geometry for Physicists*. London: Academic Press.
- Rubakov, V. A. (2002). *Classical Theory of Gauge Fields*. Princeton: Princeton University Press.
- Schutz, B. F. (1982). *Geometrical Methods of Mathematical Physics*. Cambridge: Cambridge University Press.
- Schwarz, A. S. (1993). *Quantum Field Theory and Topology*. Berlin: Springer-Verlag.
- Spivak, M. (1965). *Calculus on Manifolds*. Reading, MA: Addison-Wesley Publishing Company.
- Sternberg, S. (1995). *Group Theory and Physics*. Cambridge: Cambridge University Press.
- Straumann, N. (1984, 1991). *General Relativity and Relativistic Astrophysics*. Berlin: Springer-Verlag.
- Thirring, W. (1978). *A Course in Mathematical Physics*, vol. 1. *Classical Dynamical Systems*. New York: Springer-Verlag.
- (1986). *A Course in Mathematical Physics*, vol. 2. *Classical Field Theory*. New York: Springer-Verlag.
- Trautman, A. (1984). *Differential Geometry for Physicists*. Naples: Bibliopolis.
- (1980). Fiber bundles, gauge fields, and gravitation. In *General Relativity and Gravitation (One Hundred Years After the Birth of Albert Einstein)*, ed. A. Held. New York: Plenum Press, pp. 287–308.
- Wallace, A. H. (1968). *Differential Topology (First Steps)*. New York and Amsterdam: W. A. Benjamin.
- Woodhouse, N. M. J. (1991). *Geometric Quantization*. Oxford: Oxford University Press.