

REFERENCES (Date: September 01, 2017)

Recently so many books on the quantum mechanics have been published all over the world, including the books on quantum entanglement, quantum computation, quantum optics, and so on. These new topics were never discussed seriously in the old good books of quantum mechanics. The appearance of new books greatly contribute to our deeper understanding the essential of the quantum mechanics.

Here I present a list of books (new books and old books) which I can find in the Library of SUNY at Binghamton (almost books), in alphabetical orders. All these books may be helpful to our understanding of the quantum mechanics. You may notice that the contents of the books are rather different before and after the appearance of new topics.

References denoted by **red letters** are typical textbook which I chose.

- Aaron: S. Aaronson, *Quantum Computing since Democritus* (Cambridge, 2013).
- Abers: E.S. Abers, *Quantum Mechanics* (Pearson, 2004).
- Aczel: A.D. Aczel, *Entanglement the great mystery in physics* (Four Walls Eight Windows, 2002).
- Adler: S.L. Adler, *Quantum Theory as an Emergent Phenomenon* (Cambridge, 2004).
- Agarw: G.S. Agarwal, *Quantum Statistical Theories of Spontaneous Emission and their Relation to Other Approaches* (Springer, 1974).
- Ahara: Y. Aharonov and D. Rohrlich, *Quantum Paradoxes: Quantum Theory for the Perplexed* (Wiley-VCH, 2005).
- Akuli: V.M. Akulin, *Coherent Dynamics of Complex Quantum Systems* (Springer, 2006).
- Alber: D.Z. Albert, *Quantum Mechanics and Experience* (Harvard University Press, 1992).
- Allen: L. Allen, S.M. Barnett, and M.J. Padgett, *Optical Angular Momentum* (Institute of Physics Publishing, 2003).
- Alter: O. Alter and Y. Yamamoto, *Quantum Measurement of a Single System* (John Wiley & Sons, 2001).
- Amre: W.O. Amrein, J.M. Jauch, and K.B. Sinha, *Scattering Theory in Quantum Mechanics* (W.A. Benjamin, 1977).
- Andre: D.L. Andrews and M. Babiker edited, *The Angular Momentum of Light* (Cambridge, 2013)
- Angel: D.G. Angelakis, M. Christandl, A. Ekert, A. Kay, and S. Kulik. *Quantum Information Processing* (IOS Press, 2005).
- Appel: W. Appel, *Mathematics for Physics and Physicists* (Princeton University Press, 2007).
- Arfke: G.B. Arfken and H.J. Weber, *Mathematical Methods for Physicists* (Elsevier, New York, 2005).

- Asch: J. Asch and A. Joye (edited). *Mathematical Physics of Quantum Mechanics* (Springer, 2006).
- Aspect1: A. Aspect, P. Grangier, and G. Roger, Phys. Rev. Lett. 49, 91–94 (1982).
- Aspect2: A. Aspect, PITP lectures on Bell Quantum Phenomena, University of British Columbia (May 25, 2012).
- Atkins: P. Atkins and R. Friedman, *Molecular Quantum Mechanics*, 4th edition (Oxford, 2005).
- Atkin: D. Atkinson, *Quantum Mechanics A Self-Contained Course Volume 1* (Rinton Press, 2001).
- Audre: J. Audretsch, *Entangled Systems New Directions in Quantum Physics* (Wiley-VCH, 2006).
- Aulet1: G. Auletta, M. Fortunato, and G. Parisi, *Quantum Mechanics* (Cambridge, 2009).
- Aulet2: G. Auletta, *Foundations and Interpretation of Quantum Mechanics* (World Scientific, 2001).
- Bacho: H.-A. Bachor and T.C. Ralph, *A Guide to Experiments in Quantum Optics, Second, Revised and Enlarged Edition* (Wiley-VCH, 2004).
- Baggo1: J. Baggott, *The Meaning of Quantum Theory: A Guide for Students of Chemistry and Physics* (Oxford, 1992).
- Baggo2: J. Baggott, *The Quantum Story: A History in 40 Moments* (Oxford, 2011).
- Balca: E. Balcar and S.W. Lovesey, *Introduction to the Graphical Theory of Angular Momentum: Case Studies* (Springer, 2009).
- Balle: L.E. Ballentine, *Quantum mechanics: A Modern Development* (World Scientific, 2000).
- Band: Y.B. Band and Y. Avishai, *Quantum Mechanics with Applications to nanotechnology and information Science* (Academic Press, 2013).
- Bank: T. Bank, *Modern Quantum Field Theory: A Concise Introduction* (Cambridge, 2008).
- Bardo: F. Bardou, J.-P. Bouchaud, A. Aspect, and C. Cohen-Tannoudji, *Lévy Statistics and Laser Cooling: How Rare Events Bring Atoms to Rest* (Cambridge, 2003).
- Barne1: S. M. Barnett, *Quantum information* (Oxford University Press, 2009).
- Barne2: S.M. Barnett and P.M. Radmore, *Methods in Theoretical Quantum Optics* (Oxford, 1997).
- Barre: J.A. Barrett, *The Quantum Mechanics of Minds and Worlds* (Oxford, 1999).
- Bars: I. Bars, *Quantum Mechanics* (September 2005) from Web site.
- Basde1: J.-L. Basdevant and J. Dalibard, *Quantum Mechanics* (Springer, 2002).
- Basde2: J.-L. Basdevant, *Lectures on Quantum Mechanics* (Springer, 2007).
- Bayfi: J. Bayfield, *Quantum Evolution An Introduction to Time-Dependent Quantum Mechanics* (John Wiley & Sons, 1999).
- Baym: G. Baym, *Lectures on Quantum Mechanics* (Westview Press, 1990).
- Beard: D.B. Beard, *Quantum Mechanics* (Allyn and Bacon, 1963).
- Beck: M. Beck, *Quantum Mechanics: Theory and Experiment* (Oxford, 2013)

- Bell1: J.S. Bell, *Speakable and unspeakable quantum mechanics* (Cambridge, 2004).
- Bell2: M. Bell, K. Gottfried, and M. Veltman, *John S. Bell on the Foundation of Quantum Mechanics* (World Scientific, 2001).
- Bella1:** M.L. Bellac, *Quantum Physics* (Cambridge, 2006).
- Bella2: M.L. Bellac, *A Short Introduction to Quantum Information and Quantum Computation* (Cambridge, 2006).
- Bengt: Bengtsson and K. Zyczkowski, *Geometry of Quantum States An Introduction to Quantum Entanglement* (Cambridge, 2006).
- Benne1: G. Benetti, G. Casati, and G. Strini, *Principles of Quantum Computation and Information vol. I: Basic Concepts* (World Scientific, 2005).
- Benne2: G. Benetti, G. Casati, and G. Strini, *Principles of Quantum Computation and Information vol. II: Basic Tools and Special Topics* (World Scientific, 2007).
- Berez: F.A. Berezin, *The Method of Second Quantization* (Academic Press, 1966).
- BermanG: G.P. Berman, G.D. Doolen, R. Mainieri, and V.I. Tsifrinovich, *Introduction to Quantum Computers* (World Scientific, 1998).
- BermanP: P.R. Berman and V.S. Malinovsky, *Principles of laser Spectroscopy and Quantum Optics* (Princeton University Press, 2011).
- Bertl: R.A. Bertlmann and A. Zeilinger, *Quantum Unspeakables: From Bell to Quantum Information* (Springer, 1980).
- Berns: J. Bernstein, *Albert Einstein: And the Frontiers of Physics* (Oxford, 1996).
- Bes:** D.R. Bes, *Quantum Mechanics A Modern and Concise Introductory Course*, Second, Revised Edition (Springer, 2007).
- Bethel1:** H. Bethe and R. Jackiw, *Intermediate Quantum Mechanics* (Westview Press, 1997).
- Bethe2: H.A. Bethe and E.S. Salpeter, *Quantum Mechanics of One- and Two-Electron Atoms* (Springer, 1957).
- Beth: H.A. Bethe, *Elementary Nuclear Theory* (John Wiley & Sons, 1947).
- Betti: A. Bettini, *Introduction to Elementary Particle Physics* (Cambridge, 2008).
- Bied: L.C. Biedenharn and J.D. Louck, *Angular Momentum in Quantum Physics* (Addison-Wesley, 1981).
- Binne:** J. Binney and D. Skinner, *The Physics of Quantum Mechanics* (Oxford, 2014).
- Biswa: T. Biswas, *Quantum Mechanics - Concepts and Applications* (June 16, 1999). From Web site.
- Bjork: J.D. Bjorken and S.D. Drell, *Relativistic Quantum Mechanics* (McGraw-Hill, 1964).
- Blind: S.M. Blinder, *Introduction to Quantum Mechanics in Chemistry, Materials Science, and Biology* (Elsevier, 2004).
- Blokh: D.I. Blokhintsev, *Quantum Mechanics* (D. Reidel Publishing, 1964).
- Blum: K. Blum, *Density Matrix Theory and Applications*, 2nd edition (1996, 1981, Plenum Press).
- Bogol1: N.N. Bogoliubov and D.V. Shirkov, *Quantum Fields* (Benjamin/Cummings,

- 1983).
- Bogol2: N.N. Bogoliubov and D.V. Shirkov, *Introduction to the Theory of Quantized Fields* (A Wiley-Interscience, 1980).
- BöhmA: A. Böhm, *Quantum Mechanics* (Springer, 1979).
- BohmD: D. Bohm, *Quantum Theory* (Dover, 1979).
- Bokul: A. Bokulich and G. Jaeger (edited), *Philosophy of Quantum Information and Entanglement* (Cambridge, 2010).
- Born1.: M. Born, *Atomic Physics*, 2nd edition (Blackie & Son Limited, London, 1937).
- Born2: M. Born and E. Wolf, *Principles of Optics*, 7th (expanded) edition (Cambridge, 2003).
- Boude: R. Boudet, *Relativistic Transitions in the Hydrogenic Atoms; Elementary Theory* (Springer, 2009).
- Bouwme: D. Bouwmeester, A. Ekert, and A. Zeilinger, *The physics of Quantum Information: Quantum Cryptography, Quantum Teleportation, Quantum Computation* (Springer, 2000).
- Bowm: G. Bowman, *Essential Quantum Mechanics* (Oxford, 2008).
- Bragin: V.B. Braginsky and F.Y. Khalili, *Quantum Measurement* (Cambridge 1992).
- Brandt1: S. Brandts and H.D. Dahmen, *The Picture Book of Quantum Mechanics* 3rd edition (Springer, 2001).
- Brandt2: S. Brandts, H.D. Dahmen, and T. Stroh, *Interactive Quantum Mechanics* (Springer, 2003).
- Brandt3: S. Brandt, *The Harvest of a Century, Discoveries of Modern Physics in 100 Episodes* (Oxford, 2009).
- Brans1: B.H. Bransden and C.J. Joachain, *Quantum Mechanics*, second edition (Pearson Education, 2000).
- Brans2: B.H. Bransden. *Atomic Collision Theory* (W.A. Benjamin, 1970).
- Brink: D.M. Brink and G.R. Satchler, *Angular Momentum*, 2nd edition (Oxford, 1968).
- Brogli1: L. de Broglie, *An Introduction to the Study of Wave Mechanics* (Methuen & Co., 1930).
- Brogli2: L. de Broglie, *Non-linear Wave Mechanics A Causal Interpretation* (Elsevier, 1960).
- Bruce: C. Bruce, *Schrodinger's Rabbit: The Many Worlds of Quantum* (Joseph Henry Press, 2004).
- Bruss: D. Bruß and G. Leuchs, *Lectures on Quantum Information* (Wiley-VCH, 2007).
- Bub: J. Bub, *Interpretation of the Quantum Mechanics* (D. Reidel, 1974).
- Burkh: C.E. Burkhardt and J.J. Leventhal, *Foundations of Quantum Physics* (Springer, 2008).
- Capri: A. Z. Capri, *Nonrelativistic Quantum Mechanics*, 3rd Edition (World Scientific, 2002).
- Cario: G. Cariolaro, *Quantum Communications* (Springer, 2015).

- Carme: J.M. Carmelo, P.D. Sacramento, J.M.M. Lopes dos Santos, and V. Rocha Vieira, *Strongly Correlated Systems. Coherence and Entanglement* (World Scientific, 2007).
- Cassid: D.C. Cassidy, *Beyond Uncertainty: Heisenberg, Quantum Physics, and the Bomb* (Bellevue Literary Press, 2009).
- Cerf: N.J. Cerf, G. Leuchs, and E.S. Polzik (edited), *Quantum Information with Continuous Variables of Atoms and Light* (Imperial College Press, 2007).
- Chaic: M. Chaichian and R. Hagedorn, *Symmetries in Quantum Mechanics From Angular Momentum to Supersymmetry* (Institute of Physics, 1997).
- Chen: G.Chen et al. *Quantum Computing Devices: Principles, Designs, and Analysis* (Chapman&Hall, 2007).
- Clark: H. Clark, *A First Course in Quantum Mechanics* (Van Nostrand, 1974).
- Clift: R. Clifton, *Quantum Entanglements: Selected Papers* Rob Clifton (Oxford, 2004).
- Cohen-T1: C. Cohen-Tannoudji, B. Diu, and F. Laloë, *Quantum Mechanics volume I and volume II* (John Wiley & Sons, 1977).
- Cohen-T2: C. Cohen-Tannoudji and D. Guery-edelin, *Advances in Atomic Physics*. (World Scientific, 2010).
- CohenD: D.L. Cohen, *Lecture Notes on Quantum Mechanics*. From Web site.
- Colem: P. Coleman, *Introduction to Many Body Physics*. From Web site.
- Commi: E.D. Commins, *Quantum Mechanics: An Experimentalist's Approach* (Cambridge, 2014).
- Condo: E.U. Condon and G.H. Shortley, *The Theory of Atomic Spectra* (Cambridge, 1959).
- Consta: F. Constantinescu and E. Magyari, *Problems in Quantum Mechanics* (Pergamon Press, 1971).
- Contin: M.A. Continentino, *Quantum Scaling in Many-Body Systems* (World Scientific, 2001).
- Copel1: B.J. Copeland, *Alan Turing's Electronic Brain: The Struggle to Build the Ace, the Eorld's Fastest Computer* (Oxford, 2005).
- Copel2: B.J. Copeland, *Turing: Pioneer of the Information Age* (Oxford, 2012).
- Corne: A. Corney, *Atomic and Laser Spectroscopy* (Oxford, 1977).
- Corry: S. Corry, *Symmetry and Quantum Mechanics* (CRC, 2017).
- Cotti: W.N. Cottingham and D.A. Greenwood, *An Introduction to Nuclear Physics*, 2nd edition (Cambridge, 2004).
- CoxB: B. Cox and J. Forshaw, *The Quantum Universe* (DaCapo Press, 2011).
- CoxP: P.A. Cox, *Introduction to Quantum Theory and Atomic Structure* (Oxford, 1996).
- Croca: J.R. Croca, *Towards a Nonlinear Quantum Physics* (World Scientific, 2003).
- Cropp: W.H. Cropper, *The Quantum Physicists And an Introduction to Their Physics* (Oxford, 1970).
- Curti: T.L. Curtright, D.B. Fairlie, and C.K. Zachos, *A Concise Treatise on Quantum*

- Mechanics in Phase Space* (World Scientific, 2014).
- Dale: M. Dale and C.A. Grimes, *The Electromagnetic Origin of Quantum Theory and Light, Second edition* (World Scientific, 2005).
- Das1: A. Das and A.C. Melissinos, *Quantum Mechanics A Modern Introduction* (Gordon and Breach Science, 1986).
- Das2: A. Das, *Lectures on Quantum Mechanics*, 2nd edition (World Scientific, 2012).
- Davyd: A.S. Davydov, *Quantum Mechanics* (Pergamon Press, 1965).
- Demet: W. Demetröder, *Atoms, Molecules and Photons: An Introduction to Atomic-, Molecular- and Quantum Physics* (Springer, 2010).
- Desai: B.R. Desai, *Quantum Mechanics with Basic Field Theory* (Cambridge, 2010).
- Devana: V. Devanathan, *Angular Momentum Techniques in Quantum Mechanics* (Kluwer Academic, 2002).
- Dewitt: C. Dewitt, A. Maheshwari, and B. Nelson, *Path Integration in Non-Relativistic Quantum Mechanics* (North-Holland, 1979).
- Dick: R. Dick, *Advanced Quantum Mechanics* (Springer, 2011).
- Dicke: R.H. Dicke and J.P. Wittke, *Introduction to Quantum Mechanics* (Addison-Wesley, 1966).
- Dimoc: J. Dimock, *Quantum Mechanics and Quantum Field Theory: A Mathematical Primer* (Cambridge, 2011).
- Diosi: L. Diosi, *A Short Course in Quantum Information Theory* (Springer, 2007).
- Dirac1: P.A.M. Dirac, *The Principles of Quantum Mechanics*, 4th edition (Oxford, 1958).
- Dirac2: P.A.M. Dirac, *Spinors in Hilbert Space* (Plenum Press, 1974).
- Dubbe: D. Dubbers and H.-J. Stöckmann, *Quantum Physics: The Bottom-Up Approach From the Simple Two-Level System to Irreducible Representations* (Springer, 2013).
- Durr: D. Dürr and S. Teufel, *Bohmian Mechanics The physics and Mathematics of Quantum Theory* (Springer, 2009).
- Dushma: S. Dushman, *The Elements of Quantum Mechanics* (John Wiley and Sons, 1938).
- Dyson: F. J. Dyson, *Advanced Quantum Mechanics* (World Scientific, 2007).
- Econo: E.N. Economou, *Green's Functions in Quantum Physics* (Springer, 2006).
- Edmon: A.R. Edmonds, *Angular momentum in Quantum Mechanics* (Princeton University Press, 1957).
- Eisele: J.A. Eisele, *Modern Quantum Mechanics with Applications to Elementary Particle Physics* (Wiley-Interscience, 1969).
- Einst: A. Einstein, B. Podolsky, and N. Rosen, *Phys. Rev.* 47, 777-780 (1935).
- Ellio: H.L. Elliot and R. Seiringer, *The Stability of Matter in Quantum Mechanics* (Cambridge, 2010).
- Engle: B-G. Englert, *Lectures on Quantum Mechanics, basic matters* (2006).
- Engle: B-G. Englert, *Lectures on Quantum Mechanics, simple systems* (2006).
- Engle: B-G. Englert, *Lectures on Quantum Mechanics, perturbed evolution* (2006).
- Espag: B. D'Espagnat, *Conceptual Foundation of Quantum Mechanics*, Second edition

- (Perseus Book, 1999).
- Espos1: G. Esposito, G. Marmo, and G. Sudarshan, *From Classical to Quantum Mechanics: Introduction to the Formalism, Foundations and Applications* (Cambridge, 2004).
- Espos2: G. Esposito, G. Marmo, G. Marmo, and G. Sudarshan, *Advanced Concepts in Quantum Mechanics* (Cambridge, 2015).
- Everi: H.O. Everitt (edited), *Experimental Aspects of Quantum Computing* (Springer, 2005).
- Fano: U. Fano and A.R.P. Rau, *Symmetries in Quantum Physics* (Academic Press, 1996).
- Farin: J.E.G. Farina, *Quantum Theory of Scattering Progresses* (Pergamon Press, 1973).
- Fayer: M.D. Fayer, *Elements of Quantum Mechanics* (Oxford, 2001).
- Fayng: M. Fayngold and V. Fayngold, *Quantum mechanics and Quantum Information* (Wiley-VCH, 2013).
- Feenb: E. Feenberg and G.E. Pake, *Notes on the Quantum Theory of Angular Momentum* (Addison-Wesley, 1953).
- Ferná: F.M. Fernández, *Perturbation Theory in Quantum Mechanics* (CRC, 2000).
- Fetter: A.L. Fetter and J.D. Walecka, *Quantum Theory of Many-Particle Systems* (Dover, 2003).
- Fermi1: E. Fermi, *Notes on Quantum Mechanics* (The University of Chicago Press, 1961).
- Fermi2: E. Fermi, *Nuclear Physics* (University of Chicago, 1950).
- Feynm1: R.P. Feynman, R.B. Leighton, and M. Sands, *The Feynman Lectures in Physics*, 6th edition (Addison Wesley, 1977).
- Feynm2: R. P. Feynman and A. R. Hibbs, *Quantum Mechanics and Path Integrals*, emended by Daniel F. Styer, Emended edition (Dover, 2010).
- Feynm3: R.P. Feynman, *Feynman Lectures on Computation* (Addison-Wesley, 1996).
- Ficek: Z. Ficek and S. Swain, *Quantum Interference and Coherence: Theory and Experiments* (Springer, 2005).
- Fine: A. Fine, *The Shaky Game Einstein Realism and the Quantum Theory* (University of Chicago Press, 1986).
- Fong: P. Fong, *Elementary Quantum Mechanics Expanded Edition* (World Scientific, 2005).
- Foot: C.J. Foot, *Atomic Physics* (Oxford, 2005).
- Ford: K.W. Ford, *Quantum World: Quantum Physics for Everyone* (Harvard University Press, 2004).
- Fox: M. Fox, *Quantum Optics: An Introduction* (Oxford, 2006).
- Frasse: B.C. van Fraassen, *Quantum Mechanics: An Empiricist View* (Oxford, 1991).
- Frenk: J. Frenkel, *Wave Mechanics: Advanced General Theory* (Oxford, 1934).
- Fried: H. Friedrich, *Theoretical Atomic Physics* (Springer, 1998).
- Furus: A. Furusawa and P. van Loock, *Quantum Teleportation and Entanglement*

- (Wiley-VCH, 2011).
- Gräfe: W. Gräfe, *Quantum Mechanical Models of Metal Surfaces and Nanoparticles* (Springer, 2016).
- Garri: J.C. Garrison and R.Y. Chiao, *Quantum Optics* (Oxford, 2008).
- Gasio: S. Gasiorowicz, *Quantum Mechanics*, 3rd edition (John Wiley & Sons, 2003).
- Gazea: J.-P. Gazeau, *Coherent States in Quantum Physics* (Wiley-VCH, 2009).
- Gerry: C. Gerry and P. Knight, *Introductory Quantum Optics* (Cambridge, 2005).
- Ghose: P. Ghose, *Testing quantum mechanics on new ground* (Cambridge, 1999).
- Gilder: L. Gilder, *The Age of Entanglement: When Quantum Physics was Reborn* (Alfred A. Knopf, 2008).
- Gilm: R. Gilmore, *Alice in Quantumland* (Springer, 1995).
- Giuli: D. Giulini, E. Joos, C. Kiefer, J. Kupsch, I.-O. Stamatescu, and H.D. Zeh, *Decoherence and the Appearance of a Classical World in Quantum Theory* (Springer, 1996).
- Glaub: R.J. Glauber, *Quantum Theory of Optical Coherence* (Wiley-VCH, 2007).
- Gleic: J. Gleick, *The Information: A History, A Theory, A Flood* (Pantheon Books, 2011).
- Goldb: M.L. Goldberg and K.M. Watson, *Collision Theory* (John Wiley & Sons, 1964).
- Gosso: M.A. de Gosson, *The Principles of Newtonian and Quantum Mechanics: The Need for Planck's Constant, h* (Imperial College Press, 2001).
- Goswa: A. Goswami, *Quantum Mechanics*, second edition (Waveland Press, 2003).
- Gottf: K. Gottfried and T.-M. Yan, *Quantum Mechanics: Fundamentals*, Second edition (Springer, 2003).
- Graha: A. Graham, *Kronecker Products and Matrix Calculus: with Applications* (Ellis Horwood, 1981).
- Greens: G. Greenstein and A. Zajonc, *The Quantum Challenge: Modern Research on the Foundations of Quantum Mechanics* (Jones and Bartlett Publisher, 1997).
- Greine1: W. Greiner, *Quantum Mechanics An Introduction*, 4-th edition (Springer, 2000).
- Greine2: W. Greiner, *Relativistic Quantum Mechanics: Wave Equations* (Springer, 1987).
- Greine3: W. Greiner and J. Reinhardt, *Quantum Electrodynamics*, 4th edition (Springer, 1994).
- Gribb: J. Gribbin, *Q is Quantum: An Encyclopedia for Particle Physics* (The Free Press, 1999).
- Griff: D. J. Griffiths, *Introduction to Quantum Mechanics* (Prentice Hall, 1995).
- Grosch: C. Grosche and F. Steiner, *Handbook of Feynman Path Integral* (Springer, 1998).
- Gross: F. Gross, *Relativistic Quantum Mechanics and Field Theory* (Wiley-VCH, 2004).
- Grynberg: G. Grynberg, A. Aspect, and C. Fabre, *Introduction to Quantum Optics: From the Semi-Classical Approach to Quantized Light* (Cambridge, 2010).
- Haken1: Haken and H.C. Wolf, *The Physics of Atoms and Quanta, Introduction to Experiments and Theory* (Springer, 2004).
- Haken2: H. Haken, *Light vol.1: Waves, Photons, Atoms* (North-Holland, 1986).

- Halli: D. Halliday, R. Resnick, and J. Walker, *Fundamentals of Physics*, 10th edition (John Wiley & Sons, 2013).
- Han: M.Y. Han, *A Story of Light: A Short Introduction to Quantum Field Theory of Quarks and Leptons* (World Scientific, 2004).
- Hanam: E. Hanamura, Y. Kawabe, and A. Yamanaka, *Quantum Nonlinear Optics* (Springer, 2007).
- Hanna: K. Hannabuss, *Introduction to Quantum Theory* (Oxford, 1997).
- Haroc: S. Haroche and J.-M. Raimond, *Exploring the Quantum: Atoms, Cavities, and Photons* (Oxford, 2006).
- HarriP: P. Harrison, *Quantum Wells, Wires and Dots*, 2nd edition (Wiley-Interscience, 2005).
- HarriW: W.A. Harrison, *Applied Quantum Mechanics* (World Scientific, 2001).
- Haus: H.A. Haus, *Electromagnetic Noise and Quantum Optical Measurements* (Springer, 2000).
- Hayas: M. Hayashi, *Quantum Information An Introduction* (Springer, 2006).
- Haywo: S. Haywood, *Symmetries and Conservation Laws in Particle Physics* (World Scientific, 2011).
- Hecht: E. Hecht and A. Zajac, *Optics* (Addison Wesley, 1979).
- Heine: V. Heine, *Group Theory in Quantum Mechanics: An Introduction to its Present Usage* (Pergamon Press, 1960).
- Heise1: W. Heisenberg, *The Principles of the Quantum Theory* (Dover, 1949).
- Heise2: W. Heisenberg, *Nuclear Physics* (Philosophical Library, 2007).
- Heitl: W. Heitler, *The Quantum Theory of Radiation*, 2nd edition (Oxford, 1950).
- Heilb: J.L. Heilbron, *The Dilemmas of an Upright Man: Max Planck as Spokesman for German Science* (University of California Press, 1986).
- Hemm: D.L. Hemmick and A.M. Shakur, *Bell's Theorem and Quantum Realism* (Springer, 2012).
- Herzb: G. Herzberg, *Atomic Spectra and Atomic Structure* (Dover, 1944).
- Hey: T. Hey and P. Walters, *The New Quantum Universe* (Cambridge, 2003).
- Holst: B.R. Holstein, *Topics in Advanced Quantum Mechanics* (Addison-Wesley, 1992).
- Holzn: S. Holzner, *Quantum Physics Dummies* (Wiley Publishing, 2009).
- Houst: W.V. Houston and G.C. Phillips, *Principle of Quantum Mechanics* (American Elsevier, 1973).
- Hund: F. Hund, *The History of Quantum Theory* (Harrap, London, 1967).
- Inui: T. Inui, Y. Tanabe, and Y. Onodera, *Group Theory and Its Applications in Physics* (Springer, 1990).
- Issac: W. Issacson, *Einstein: His Life and Universe* (Simon & Schuster, New York, 2007).
- Jaege: G. Jaeger, *Quantum Information An Overview* (Springer, 2007).
- Jamme: M. Jammer, *The Conceptual Development of Quantum Mechanics* (McGraw-Hill, 1966).

- Jauch: J.M. Jauch and F. Rohrlich, *The Theory of Photons and Electrons: The Relativistic Quantum Field Theory of Charged Particles with Spin One-Half*, second expanded edition (Springer, 1980).
- Johns: W.R. Johnson, *Atomic Structure Theory: lectures on Atomic Physics* (Springer 2007).
- Judd: B.R. Judd, *Operator Techniques in Atomic Spectroscopy* (Princeton University Press, 1998).
- Källe: G. Källén, *Elementary Particle Physics* (Addison-Wesley, 1964).
- Kapla: I. Kaplan, *Nuclear Physics*, second edition (Addison-Wesley, 1977).
- Karsh: S.G. Karshenboim, E.S. Pavone, F. Bassani, M. Inguscio, and T.W. Hänsch (edited), *The Hydrogen Atom: Precision Physics of Simple Atomic Systems* (Springer, 2001).
- Kashi: T. Kashiwa, Y. Ohnuki, and M. Suzuki, *Path Integral Methods* (Oxford, 1997).
- Kastn: R.E. Kastner; *The Transactional, Interpretation of Quantum Mechanics: The Reality of Possibility* (Cambridge, 2013).
- Kaye: P. Kaye, R. Laflamme, and M. Mosca, *An Introduction to Quantum Computing* (Oxford, 2007).
- Kazak: K.V. Kazakov, *Uncommon Paths in Quantum Physics* (Elsevier, 2014).
- Kenyo: I.R. Kenyon, *The Light Fantastic: A Modern Introduction to Classical and Quantum Optics* (Oxford, 2008).
- Klaud: J.R. Klauder and E.C.G. Sudarshan, *Fundamentals of Quantum Optics* (W.A. Benjamin, 1968).
- Klimov: A.B. Klimov and S.M. Chumakov, *A Group-Theoretical Approach to Quantum Optics: Models of Atom-Field Interactions* (Wiley-VCH, 2009).
- Kragh: H.S. Kragh, *Dirac: A Scientific Biography* (Cambridge, 1990).
- Krame:** H.A. Kramers, *Quantum Mechanics* (North-Holland Publishing Company, 1957).
- Krane: K.S. Krane, *Introductory Nuclear Physics* (John Wiley & Sons, 1988).
- Kraus: L.M. Krauss, *Quantum Man: Richard Feynman's Life in Science* (W.W. Norton, 2012).
- Kumar: M. Kumar, *Quantum: Einstein, Bohr, and the Great Debate about the Nature of Reality* (W.W. Norton, 2008).
- Kuno: M. Kuno, *Introductory Nanoscience: Physical and Chemical Concepts* (Garland Science, 2012).
- Kursu: B. Kursunoglu, *Modern Quantum Theory* (W.H. Freeman and Company, 1962).
- Laloë: F. Laloë, *Do we really understand quantum mechanics?* (Cambridge, 2012).
- Lam: K.S. Lam, *Non-relativistic Quantum Theory* (World Scientific, 2009).
- Laksh: S.T. Lakshmikumar, *Experimenting with the Quantum World* (Vigyan Prasar, 2007).
- Lambr: P. Lambropoulos, *Fundamentals of quantum optics and quantum information* (Springer, 2007).

- LandauL:** L.D. Landau and E.M. Lifshitz, *Quantum Mechanics* (Pergamon Press, 1977).
- LandauL: L.D. Landau and Y. Smorodinsky, *Lectures on Nuclear Theory* (Dover, 1993).
- LandauR: R.H. Landau, *Quantum Mechanics II, A Second Course in Quantum Theory* (Wiley-VCH, 2004).
- Lande: Alfred Landé, *Foundations of Quantum Theory A study in Continuity and Symmetry* (Yale University Press, 1955)
- Lauri: K.V. Laurikainen, *Beyond the Atom: The Philosophical Thought of Wolfgang Pauli* (Springer, 1985).
- Leonh: U. Leonhardt, *Measuring the Quantum State of Light* (Cambridge, 1997).
- Levi: A.F.L. Levi, *Applied Quantum Mechanics* (Cambridge, 2003).
- Levin: F.S. Levin, *An Introduction to Quantum Theory* (Cambridge, 2002).
- Leblo: J.-M. Levy-Leblond, *Quantics Rudiments of Quantum Physics* (Elsevier Science, 1990).
- Letok: V.S. Letokhov, *Laser Control of Atoms and Molecules* (Oxford, 2007).
- Libof:** R. L. Liboff, *Introductory Quantum Mechanics*, 4th edition (Addison Wesley, 2003).
- Lieb: E.H. Lieb and R. Seiringer, *The Stability of Matter in Quantum Mechanics* (Cambridge, 2010).
- Linds: S.M. Lindsay, *Introduction to Nanoscience* (Oxford, 2010).
- Lippa: E. Lipparini, *Modern Many-Particle Physics: Atomic Gases, Quantum Dots and Quantum Fluids* (World Scientific, 2003).
- Longa: M. Longair, *Quantum Concepts in Physics; An alternative approach to the understanding of quantum mechanics* (Cambridge, 2013).
- Loudo: R. Loudon, *The Quantum Theory of Light*, 3rd-edition (Oxford, 2000).
- Louis: W.H. Louisell, *Quantum Statistical Properties of Radiation* (John-Wiley & Sons, 1990).
- Lüth: H. Lüth, *Quantum Physics in the Nanoworld* (Springer, 2009).
- Macch: C. Macchiavello, G.M. Palma, and A. Zeilinger (edited), *Quantum Computation and Quantum Information Theory* (World Scientific, 2000).
- Maggi: M. Maggiore, *A Modern Introduction to Quantum Field Theory* (Oxford, 2005).
- Malin: S. Malin, *Nature Loves to Hide; Quantum Physics and Reality, a Western Perspective* (Oxford, 2001).
- Mandl: F. Mandl and G. Shaw, *Quantum Field Theory* (John Wiley & Sons, 1986).
- Manou: E.B. Manoukian, *Quantum Theory: A Wide Spectrum* (Springer, 2006).
- Marin1: D.C. Marinescu and G.M. Marinescu, *Approaching Quantum Computing* (Peason Education, 2005).
- Marin2: D.C. Marinescu and G.M. Marinescu, *Classical and Quantum Information* (Elsevier, 2010).
- MartiB: B.R. Matin and G. Shaw, *Particle Physics* 3rd edition (John Wiley & Sons, 2008).
- MartiJ: J.L. Martin, *Basic quantum mechanics* (Clarendon Press, 1981).

- Massi: M. Massim, *Pauli's Exclusion Principle: The Origin and Validation of a Scientific Principle* (Cambridge, 2005).
- Matta: C.F. Matta and R.J. Boyd, *The Quantum Theory of Atoms in Molecules: From Solid State to DNA and Drug Design* (Wiley-VCH, 2007).
- Matth: P.T. Matthews, *Introduction to Quantum Mechanics*, second edition (McGraw-Hill Book Company, 1968).
- Mattu: R.D. Mattuck, *A Guide to Feynman Diagrams in the Many-Body Problem* (McGraw-Hill, 1967).
- Mavro: H.A. Mavromatis, *Exercise in Quantum Mechanics* (Springer-Science+Business Media, 1987)
- McInt:** D.H. McIntyre, *Quantum Mechanics A Paradigms Approach* (Pearson Education, 2012).
- McMah1: D. McMahon, *Quantum Computing Explained* (Wiley-Interscience, 2008).
- McMah2: D. McMahon, *Quantum Mechanics DeMystified: A Self teaching Guide* (McGraw Hill, 2006).
- McMah3: D. McMahon, *Quantum Field Theory DeMystified: A Self teaching Guide* (McGraw Hill, 2008).
- Megli: Z. Meglicki, *Quantum Computing without Magic Devices* (MIT Press, 2008).
- Mehra1: J. Mehra, *Eisntein, Physics, and Reality* (World Scientific, 1999).
- Mehra2: J. Mehra, *The Golden Age of Theoretical Physics* vol.2 (World Scientific, 2001).
- Mehra3: J. Mehra and H. Rechenberg, *The Historical Development of Quantum Theory* (Springer, 2001).
- Mermi: N.D. Mermin, *Quantum Computer Science* (Cambridge, 2007).
- Merzb:** E. Merzbacher, *Quantum Mechanics*, third edition (John Wiley & Sons, 1998).
- Messi:** A. Messiah, *Quantum Mechanics*, vol.I and vol.II (North-Holland, 1961).
- Metca: H.J. Metcalf and P. van der Straten, *Laser Cooling and Trapping* (Springer, 1999).
- Mette: P. Mittelsteadt, *The Interpretation of Quantum Mechanics and the Measurement Process* (Cambridge, 1998).
- Meyst: P. Meystre and M. Sargent III, *Elements of Quantum Optics*, 4-th edition (Springer, 2007).
- Michl: P. Michler (edited), *Single Quantum Dots: Fundamentals, Applications and New Concepts* (Springer, 2003).
- Migda: A.B. Migdal, *Qualitative Methods in Quantum Mechanics* (W.A. Benjamin, 1975).
- Milbu: G.J. Milburn, *The Feynman Processor* (Perseus Books, 1998).
- Mizus: M. Mizushima, *Quantum Mechanics of Atomic Spectra and Atomic Structure* (W.A. Benjamin, 1970).
- Montw: A. Montwill and A. Breslin, *The Quantum Adventure: Does God Play Dice?* (Imperial College Press, 2012).

- Moore: C. Moore and S. Mertens, *The Nature of Computation* (Oxford, 2011).
- Mott:** N. F. Mott, *Elementary Quantum Mechanics* (Wykeham Publications, 1972).
- Müller: H.T. Müller-Kirsten, *Introduction to Quantum Mechanics: Schrödinger equation and path integral* (World Scientific, 2006).
- Muyn: V.M. de Muynck, *Foundation of Quantum Mechanics, an Empirical Approach* (Kluwer Academic, 2002).
- Naber: G. Naber, *The Simple-Oscillator: An Introduction to the mathematics of Quantum Theory* (from web site).
- Nakah: M. Nakahara and T. Ohmi, *Quantum Computing: From Linear Algebra to Physical Realization* (CRC Press, 2008).
- Navar: J. Navarro, *A History of the Electron: J.J. and G.P. Thomson* (Cambridge, 2012).
- Nazar: Y.V. Nazarov and J. Danon, *Advanced Quantum Mechanics: A Practical Guide* (Cambridge, 2013).
- Nesviz: V. Nesvizhevsky and A. Voronin, *Surprising Quantum Bounces*
- Newton1: R.G. Newton, *Quantum Physics: A Text for Graduate Students* (Springer 2002).
- Newton2: R.G. Newton, *How Physics Confronts Reality: Einstein was Correct, but Bohr Won the Game* (World Scientific, 2009).
- Newton3: R.G. Newton, *Scattering Theory of Waves and Particles*, 2nd edition (Springer, 1982).
- Niels: M.A. Nielsen and I.L. Chuang, *Quantum Computation and Quantum Information* (Cambridge, 2010).
- Nishi: K. Nishijima, *Fundamental Particles* (W.A. Benjamin, 1963).
- Nolti: W. Nolting, *Fundamentals of Many-Body Physics: Principles and Methods* (Springer, 2009).
- Ohlss: T. Ohlsson, *Relativistic Quantum Physics* (Cambridge, 2011).
- Olsha: M. Olshanii, *Back-of-the Envelope Quantum Mechanics* (World Scientific, 2014).
- Orsz: M. Orszag, *Quantum Optics: Including Noise Reduction, Trapped Ions, Quantum Trajectories, and Decoherence* (Springer, 2008).
- Paar: H.P. Paar, *Advanced Quantum Physics* (Wiley, 2010).
- Park:** D. Park, *Introduction to the Quantum Theory*, 3rd edition (McGraw-Hill, Inc., New York, 1974).
- Pachos: J.K. Pachos, *Introduction to Topological Quantum Computation* (Cambridge, 2012).
- Paul: H. Paul, *Introduction to Quantum Optics: From Light Quanta to Quantum Teleportation* (Cambridge, 2004).
- Pauli:** W. Pauli, *General Principles of Quantum Mechanics* (Springer, 1980).
- Pavic: M. Pavičić, *Quantum Computation and Quantum Communication: Theory and Experiments* (Springer 2006).
- Peaco: K.A. Peacock, *The Quantum Revolution: A Historical Perspective* (Greenwood Press, 2008).

- Peebl: P.J.E. Peeble, *Quantum Mechanics* (Princeton University Press, 1992).
- Peier1: R.E. Peierls, *Surprises in theoretical physics* (Princeton University Press, 1979).
- Peier2: R.E. Peierls, *More surprises in theoretical physics* (Princeton University Press, 1991).
- Peier3: R.E. Peierls, *The Laws of Nature* (Charles Scribner's Sons, 1956).
- Peleg: *Schaum's Outline of Theory and Problems of Quantum Mechanics*, Y. Peleg, R. Pnini, and E. Zaarur (McGraw-Hill, 1998).
- Penro: R. Penrose, *The Road to Reality: A Complete Guide to the Laws of the Universe* (Jonathan Cape, 2004).
- Perel1: A. Perelomov and Y.B. Zel'dovich, *Quantum Mechanics, Selected Topics* (World Scientific, 1988).
- Perel2: A. Perelomov, *Generalized Coherent States and their Applications* (Springer, 1986).
- Peres: A. Peres, *Quantum Theory: Concepts and Methods* (Kluwer Academic, 2002).
- Petru: S. Petruccioli, *Atoms, Metaphors, and Paradoxes: Niels Bohr and the Construction of a New Physics* (Cambridge, 1993).
- Phill: A.C. Phillips, *Introduction to Quantum Mechanics* (John Wiley & Sons, 2003).
- Pikes: E.R. Pikes and S. Sarkar, *The Quantum Theory of Radiation* (Oxford, 1995).
- Pitten: A.O. Pittenger, *An Introduction to Quantum Computing Algorithms* (Birkhäuser, 1999).
- Plotni: A. Plotnitsky, *N. Bohr and Complementary: An Introduction* (Springer, 2013).
- Polkin: J.C. Polkinghorne, *The Quantum World* (Longman, 1984).
- Povh: B. Povh and M. Rosina, *Scattering and Structures: Essentials and Analogies in Quantum Physics* (Springer, 2002).
- Rae1: A.I.M. Rae, *Quantum Physics A Beginner's Guide* (Oneworld, Oxford, 2005).
- Rae2: A.I.M. Rae, *Quantum Physics: Illusion or Reality*, 2nd edition (Cambridge, 2004).
- Rajar1: S. Rajasekar and R. Velusamy, *Quantum mechanics I: The Fundamentals* (CRC, 2015).
- Rajar2: S. Rajasekar and R. Velusamy, *Quantum mechanics II: Advanced Topics* (CRC 2015).
- Rand: S.C. Rand, *Lectures on Light Nonlinear and Quantum Optics Using the Density Matrix* (Oxford, 2010).
- Rauch: H. Rauch and S.A. Werner, *Neutron Interferometry Lessons in Experimental Quantum Mechanics* (Oxford University Press, 2000).
- Razav: M. Razavy, *Heisenber's Quantum Mechanics* (World Scientific, 2011).
- Reed: B. C. Reed, *Quantum Mechanics* (Jones and Bartlett Publications, 2008).
- Resni: R. Resnick, *Basic Concepts in Special Relativity and Early Quantum Theory* (John Wiley & Sons, 1972).
- Rieff: E. Rieffel and W. Polak, *Quantum Computing: A General Introduction* (The MIT

- Press, 2011).
- Rodlb: L.S. Rodberg and R.M. Thaler, *Introduction to the Quantum Theory of Scattering* (Academic Press, 1967).
- Roede: J.G. Roederer, *Information and Its Role in Nature* (Springer, 2005).
- Roeps: G. Roepstorff, *Path Integral Approach to Quantum Physics An Introduction* (Springer, 1991).
- Rose: M. Rose, *Elementary Theory of Angular Momentum* (Dover, 1957).
- Rogal: M.S. Rogalski and S.B. Palmer, *Quantum Physics* (Gordon and Breach, 1999).
- Rous: O.H. Rousseau and P. Blaise, *Quantum Oscillators* (Wiley, 2011).
- Sachs: R.G. Sachs, *Nuclear Theory* (McGraw-Hill, 1955).
- Sachs: M. Sachs, *Einstein versus Bohr: The Controversies in Physics* (Open Court, 1988).
- Sagaw: H. Sagawa and N. Yoshida, *Fundamentals of Quantum Information* (World Scientific, 2011).
- Sakur1: J.J. Sakurai and J. Napolitano, *Modern Quantum Mechanics*, 2nd edition (Addison-Wesley, 2011).
- Sakur2: J.J. Sakurai, *Advanced Quantum Mechanics* (Addison-Wesley, 1967).
- Sakur3: J.J. Sakurai, *Invariance Principles and Elementary Particles* (Princeton University Press, 1964).
- Salam: A. Salam and E.P. Wigner (edited), *Aspect of Quantum Theory* (Cambridge, 1972).
- Sangh: P. Sanghera, *Quantum Physics for Scientists and Technologists* (Wiley, 2011).
- Sarg: M. Sargent III, M.O. Scully, and W.E. Lamb, Jr., *Laser Physics* (Addison-Wesley, 1974).
- Saxon: D. S. Saxon, *Elementary Quantum Mechanics* (Holden-Day, San Francisco, 1968).
- Scadr: M.D. Scadron, *Advanced Quantum Theory*, 3rd edition (World Scientific, 2007).
- Scara: V. Scarani, *Quantum Physics A First Encounter: Interference, Entanglement, and Reality* (Oxford, 2003).
- Shec: F. Scheck, *Quantum Physics* (Springer, 2007).
- Schei: E. Scheibe, *The Logical Analysis of Quantum Mechanics* (Pergamon Press, 1973).
- Schif: L.I. Schiff, *Quantum Mechanics* (McGraw-Hill, 1955).
- Schle: W.P. Schleich, *Quantum Optics in Phase Space* (Wiley-VCH, 2001).
- Schro: E. Schrödinger, *Collected Papers on Wave Mechanics* (Blackie & Sons, 1928).
- Schroe: F.E. Schroeck, Jr., *Quantum Mechanics on Phase Space* (Springer, 1996).
- Schul: L.S. Schulman; *Techniques and Applications of Path Integration* (A Wiley-Interscience, 1981).
- Schwa1: F. Schwabl, *Quantum Mechanics*, 4-th edition (Springer, 2007).
- Schwa2: F. Schwabl, *Advanced Quantum Mechanics* (Springer, 2000).
- Schwind: J-M. Schwindt, *Conceptual Basis of Quantum Mechanics* (Springer, 2016).
- Schwing1: J Schwinger, *Quantum Mechanics: Symbolism of Atomic Measurements*

- (Springer, 2001).
- Schwing2: J Schwinger (edited), *Selected Papers on Quantum Electrodynamics* (Dover 1958).
- Schwe1: S.S. Schweber, *An Introduction to Relativistic Quantum Field Theory* (Row, Peteson, 1961).
- Schwe2: S.S. Schweber, *QED and the Men who made it: Dyson, Feynman, Schwinger, and Tomonaga* (Princeton University Press, 1994).
- Scully: M.O. Scully and M.S. Zubairy, *Quantum Optics* (Cambridge, 1997).
- Serwa1: R.A. Serway, C.J. Moses, and C.A. Moyer, *Modern Physics*, 3rd edition (Books/Cole-Thomson Learning, 2005).
- Serwa2: R.A. Serway and J.W. Jewett, Jr., *Physics for Scientists and Engineers with Modern Physics*, 8th edition (Brooks/Cole Cengage Learning, 2010).
- Shank:** R. Shankar, *Principles of Quantum Mechanics*, second edition (Springer, 1994).
- Shnir: Y.M. Shnir, *Magnetic Monopoles* (Springer, 2005).
- Silli: R.M. Sillitto, *Non-relativistic Quantum Mechanics: An Introduction, second edition* (American Elsevier Publishing Company, 1967).
- Silve: M.P. Silverman, *Quantum Superposition: Counterintuitive Consequences of Coherence, Entanglement, and Interference* (Springer, 2008).
- Schle: W.P. Schleich and H. Walther edited, *Elements of Quantum Information* (Wiley-VCH, 2007).
- Schro: F.E. Schroeck, Jr. *Quantum Mechanics on Phase Space* (Springer, 1996).
- Sobel: I.I. Soberman, *Atomic Spectra and Radiative Transitions*, 2nd edition (Springer, 1996).
- Spang: R. Spangenburg and D.K. Moser, *Niels Bohr: Atomic Theorist*, revised edition (Chelsea House, 2008).
- Squire: G.L. Squire, *Problems in Quantum Mechanics with solutions* (Cambridge, 2002).
- Squires: E. Squires, *The Mystery of the Quantum World*, 2nd edition (Taylor & Francis, 1994).
- Steeb1: W.-H. Steeb and Y. Hardy, *Problems & Solutions in Quantum Computing & Quantum Information* (World Scientific, 2004).
- Steeb2: W.-H. Steeb and T.K. Shi, *Matrix Calculus and Kronecker Product with Applications and C++ Programs* (World Scientific, 1997).
- Stehl: P. Stehle, *Quantum Mechanics* (Holden_Day, 1966).
- Stenh: S. Stenholm and K.-A. Suominen, *Quantum Approach to Informatics* (Wiley-Interscience, 2005).
- Stien: A.G. Stienko, *Lectures in Scattering Theory* (Pergamon Press, 1971).
- Stolz: J. Stolze and D. Suter, *Quantum Computing A Short Course from Theory to Experiment* (Wiley-VCH, 2004).
- Stone: A.D. Stone, *Einstein and the Quantum: The Quest of the Valiant Swabian* (Princeton University Press, 2013).

- Strang: P. Strange, *Relativistic Quantum Mechanics with applications in condensed matter and atomic physics* (Cambridge, 1998).
- Straus: H. L. Strauss, *Quantum Mechanics An Introduction* (Prentice Hall, 1968).
- Styer: D.F. Styer, *The Strange World of Quantum Mechanics* (Cambridge, 2000).
- Suda: M. Suda, *Quantum Interferometry in Phase Space: Theory and Applications* (Springer, 2006).
- Sunag: S. Sunagawa, *Quantum Theory of Scattering* (Iwanami, 1977) [in Japanese].
- Suski: L. Suskind and A. Friedman, *Quantum Mechanics The Theoretical Minimum* (Basic Books, 2014).
- Suter: D. Suter, *The Physics of Laser-Atom Interactions* (Cambridge, 1997).
- Swans: D.G. Swanson, *Quantum mechanics Foundations and Applications* (Taylor & Francis, 2007).
- TaylorJR: J.R. Taylor, *Scattering Theory: The Quantum Theory on Nonrelativistic Collisions* (John Wiley & Sons, 1972).
- TaylorJC: J.C. Taylor, *Hidden Unity in Nature's Law* (Cambridge, 2004).
- Temp: G. Temple, *The General Principles of Quantum Theory, third edition* (Methuen & Co, 1946).
- Ter1: D. Ter Haar, *The Old Quantum Theory* (Pergamon Press, 1967).
- Ter2: D. Ter Haar (collected and edited), *Selected Problems in Quantum Mechanics* (Infosearch Limited, 1964).
- Thall1: B. Thaller, *Advanced Visual Quantum Mechanics* (Springer, 2005).
- Thall2: B. Thaller, *Visual Quantum Mechanics: Selected Topics with Computer-Generated Animations of Quantum-Mechanical Phenomena* (Springer, 2000).
- Thank: V.K. Thankappan, *Quantum mechanics, second edition* (New Age International, 1985).
- Thomp: W.J. Thompson, *Angular Momentum: An Illustrated Guide to Rotational Symmetries for Physical Systems* (Wiley-VCH, 2004).
- Thoms: M. Thomson, *Modern Particle Physics* (Cambridge, 2013)
- Thorn: S.T. Thornton and A. Rex, *Modern, Modern Physics for Scientists and Engineers, 3rd edition*, (Brooks/Cole Cengage Learning, 2006).
- Thoul: D.J. Thouless, *The Quantum Mechanics of Many-Body Systems* (Academic Press, 1961).
- Tinkh: M. Tinkham, *The Theory of Groups and Quantum Mechanics* (Dover, 2003).
- Tiple: P.A. Tipler and R.A. Llewellyn, *Modern Physics, 5th edition* (W.H. Freeman and Company, 2008).
- Tomon1:** S. Tomonaga, *Quantum Mechanics vol. I Old Quantum Theory* (North-Holland, 1962).
- Tomon2:** S. Tomonaga, *Quantum Mechanics vol. II New Quantum Theory* (John Wiley & Sons, 1966).
- Tomon3:** S. Tomonaga, *Angular momentum and Spin* (Misuzu Syobo, Tokyo, 1989) [in

- Japanese].
- Tomon4: S. Tomonaga, *The Story of Spin* (University of Chicago Press, 1997).
- Torres: J.P. Torres and L. Torner (edited), *Twisted Photons: Application of Light with Orbital Angular Momentum* (Wiley-VCH, 2011).
- Towns: J.S. Townsend, *A Modern Approach to Quantum Mechanics*, 2nd edition (University Science Books, 2012).
- Towne C.H. Townes, *How the Laser Happened, Adventures of A Scientist* (Oxford University Press, 1999).
- Troup: G. Troup, *Understanding Quantum Mechanics* (Methuen, 1968)
- Vedr: V. Vedral, *Modern Foundations of Quantum Optics* (Imperial College Press, 2005).
- Vogel: W. Vogel and D.-G. Welsch, *Quantum Optics, 3rd*, revised and extended edition (Wiley-VCH, 2006).
- Vos: A.De Vos, *Reversible Computing: Fundamentals, Quantum Computing, and Applications* (Wiley-VCH, 2010).
- Wacht: A. Wachter, *Relativistic Quantum Mechanics* (Springer, 2011).
- Waerd: B.L. van der Waerden, *Group Theory and Quantum Mechanics* (Springer, 1974).
- Walla: D. Wallace and J.J. BelBruno, *The Bell that Rings Light: A Primer in Quantum Mechanics and Chemical Bonding* (World Scientific, 2006).
- Walls: D.F. Walls and G.J. *Quantum Optics* (Springer, 2008).
- Weinb1: S. Weinberg, *Lectures on Quantum Mechanics* (Cambridge, 2013).
- Weinb2: S. Weinberg, *The Quantum Theory of Fields vol.1 Foundation* (Cambridge, 1995).
- Weinb3: S. Weinberg, *The Quantum Theory of Fields vol.2 Modern Applications* (Cambridge, 1996).
- Weine1: J. Weiner and P.-T. Ho, *Light-Matter Interaction vol.1 Fundamentals and Applications* (Wiley-Interscience, 2003).
- Weine2: J. Weiner, *Cold and Ultracold Collisions in Quantum Microscopic and Mesoscopic Systems* (Cambridge, 2003).
- Weiss: M. Weissbluth, *Atoms and Molecules* (Academic Press, 1978).
- Weyl: H. Weyl, *The Theory of Groups and Quantum Mechanics* (Dover, 1950).
- Wheel: J.A. Wheeler and W.H. Zurek, *Quantum Theory and Measurement* (Princeton University Press, 1983).
- Whita A. Whitaker, *Einstein, Bohr, and the Quantum Dilemma* (Cambridge, 1996)
- White1: H.E. White, *Introduction to Atomic and Nuclear Physics* (D. Van Nostrand, 1964).
- White2: H.E. White, *Introduction to Atomic Spectra* (McGraw-Hill, 1934)
- Wigne E.P. Wigner, *Group Theory and its Application to the Quantum Mechanics of Atomic Spectra, Expanded and Improved Edition* (Academic Press, 1959).
- Wisem: H. Wiseman and G.J. Milburn, *Quantum Measurement and Control* (Cambridge,

- 2009).
- Wu: T.Y. Wu and T. Ohmura, *Quantum Theory of Scattering* (Prentice-Hall, 1962).
- Yanof: N.S. Yanofsky and M.A. Mannucci, *Quantum Computing for Computer Scientists* (Cambridge, 2008).
- Zacho: C.K. Zachos, D.B. Fairlie, and T.L. Curtright (edited), *Quantum Mechanics in Phase Space: Overview with Selected Papers* (World Scientific, 2005).
- Zeili: A. Zeilinger, *Dance of the Photon: From Einstein to Quantum Teleportation* (Farrar, Straus, and Giroux, 2010).
- Zetti:** Nouredine Zettili, *Quantum Mechanics, Concepts and Applications*, 2nd edition (John Wiley & Sons, 2009).
- Ziman: J.M. Ziman, *Elements of Advanced Quantum Theory* (Cambridge, 1959).
- Zinn-J: J. Zin-Justin, *Path Integrals in Quantum Mechanics* (Oxford, 2005).
-