100 Years of Quantum Mechanics Literature – A Baseline

192933488S

https://github.com/192933488S/quantum-books

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A qualitative survey on the Quantum Mechanics (QM) literature space was performed. The survey presents published works since 1922. Several criteria were introduced to refine a literature list with focus on QM textbooks only. The result is impressive. This list may present the most extensive cross-publisher listing of QM literature as of today. The result equals a small database in its own sense. The seasoned reader and researcher can extend their library or knowledge about authors and textbooks. Method, data sources, analysis and limitations of the survey are briefly discussed.

Keywords: Quantum Mechanics, Quantum Theory, Literature, Textbooks

I. SYNOPSIS

The sections of this article are Method, Scope, Sources, Analysis, Quality, Outlook and Summary. The Method behind the survey is briefly laid out. The Scope provides details on the limitation and tailoring of the survey. Analysis and Quality discuss aspects related to search data. The article completes with an Outlook and Summary. The References are not citations as such, but comprise the listing of books.

II. METHOD

The following survey was performed manually, meaning the references are based on a search by a human person. No sophisticated searching-software or service was applied, but literature databases were accessed. A search string was simply put into action and the results were retrieved, analyzed, and managed by Zotero[1]. The tool relies on other databases such as WorldCat, too. Further transformation of data was needed based on the data format etc. Certain attributes such as ISBNs, pages count, etc. had to be reworked manually. See also the Quality assessment in a later section. Chapter Analysis discusses some aspects of search approach and findings. But first, the Scope of the survey is discussed.

III. SCOPE

Due to the popularity of Quantum Mechanics and the uncountable number of publications, the survey had to be tailored. The main goal was to create a set of textbooks, which appeared since the 1920s. The set should be *centered* in QM. *Centered* means no pop-science or "quantum healing", etc., but the real physical aspects of the science. Journal articles, papers, thesis publications, and the other publication objects are excluded. The scope had to be amended for special cases and limited for specific QM-developments. Some textbooks exist (are published) for a very long time and have been learning material of physicist then and now. Many of the textbooks can be considered reference works. The books were also translated or sometimes transferred between publishers etc. The exact trace is not always available. This means that the search is limited. Certain QM topics are excluded, such as Quantum Dots, Quantum Information and Quantum Technology (see Criteria below). Such books may contain an introductory chapter to QM/QT, but focus on the specific topic (new theories, technologies, etc.). Areas such as Functional Analysis (Hilbert Spaces) are also tightly connected to QM and were included with very limited search-depth. Further limitations include Nuclear or Atomic (Models, Spectroscopy, Reactors), history books etc. The expertise level of the textbooks range from undergraduate to graduate level. A full list of tailored objects (ignored, limited, avoided) is given in the following subsection.

A. Review & partial inspection

A walk-through type review of search results (hits) was performed. The results were checked, but not every book was fully inspected. A qualitative approach in this case is also helpful, because most of the literature before the 1980s was qualitatively better reviewed by hands-on approach.

B. Sets of criteria

Note. The sets do overlap, no hard border was intended. Attributes are in random order. An added T

[1] https://www.zotero.org

stands for Theory

Definitely included:

- Quantum Mechanics (QM), Quantum Theory (QT)
- Mathematical QM, Foundations, Concepts
- Applications, Theory, Quantization
- Modern, Advanced, Handbook, Intermediate, Introduction
- Non-relativistic QM
- Major scientific publishers (only)

Limited, but some include:

- Less known publishers
- Other languages or origins, e.g. German and Russian, USSR
- Adv. and Frontiers, GroupT, ScatteringT, Problems
- QED, QFT, Relativistic-QM, Algebras
- Nuclear, Atomic, ShellT, WaveT/Functions, Particles, Angular Momentum, Spin, MatrixT
- Q-Stats/Statistical-Q, OperatorT, ManyBody
- QM as part of series or volumes, QM Reviews, Lectures, Lecture Notes, History, Philosophy
- RenormalizationT, PerturbationT, Solid State-Q, GaugeT
- Hilbert Space, H-Methods, Q-Magnetism, FieldT, FunctionalT, PathintegralT
- Greater Asia, India etc., QM-Chapters of Encyclopedias
- New or planned releases 2022+, partially included

Avoided or skipping:

- Tutorials, Solution man., Exercises, Schnellkurse, Collected papers, Notes, Lectures
- Q-Optics (Coh/Decoh), Q-Chem, Q-Comp/Prog, Q-Elect, Q-Grav, Q-Entropy, Q-Crypto, Q-Chaos, QCD
- Q-Dots, Lasers, Q-Semi, Q-Graphene, Q-BandT, Molecular, DFT, Nonlinear, Phase Space, Operational-Q
- Q in Medical, Q-Symmetries, Q-Information, Potentials, Q-Liquids, Collision, Q-MonteCarlo
- Geburt (Birth of), Pop-Science, Schrödinger Cat, Q-Legacy, Non-Scientific, Simplified, DeMystified, Trends, etc.
- Bose-Einstein, Q-Gas, Categories, Q-Biologys, Q-Models, ML/AI, Q-Materials
- University lecture scripts, self-hosted (w/o ISBN, DOI)

IV. SOURCES OF TEXTBOOKS

The survey's preliminary task was to identify textbook literature sources, which qualify for QM/QT. Over the course of the survey, the database has been iterated several times.

A. Challenges

Specific challenges with the sources are as follows. For example, due to mergers and acquisitions or other settings (e.g. distribution contracts), some databases may contain other publishers, e.g. searching Wiley includes Princeton University Press. On the other hand, Elsevier acquired Academic Press (AP), but not all the books are available online. Indeed, a larger number of books are being made digitally available (OCR[2] or else), but some are left behind as original AP publications. Those are not part of search-databases, are not available as e-books or reprints and were aggregated manually. Some publishers are also far off the normal "search and find" guessing, for example Mir Moscow.[3] Manual browsing of major publishers (Elsevier, Springer, Taylor & Francis, Wiley) was the selected method, however manual interpretation of results was very often necessary. For example, in some cases it was found that non-QM titles slipped into QM category and had to be ignored. Sections were checked manually for roughly one third of items. Reverse lookup of ISBNs was sporadically performed to confirm objects. Sometimes new ISBNs were introduced for older books etc. More details in the Quality discussion below. Some books were added (arranged) based on the authors own experience and knowledge of QM literature, too. Despite some of the mentioned challenges, the author thinks, a sophisticated QM textbook collection was researched and sets a new baseline.[4]

[2] Optical Character Recognition
[3] See https://mirtitles.org for more details.
[4] Some books will be missing! The author apologizes if, through ignorance, other valuable (textbook) sources have been omitted.

B. Data sources and search results

In random order:

https://onlinelibrary.wiley.com

- "Quantum mechanics" → 19,519 hits
- "Quantum theory" → 21,876 hits

https://www.degruyter.com

- "Quantum mechanics" → 307 hits
- "Quantum theory" → 385 hits

https://www.buchhandel.de[5]

- "Quantenmechanik" → Over 4,322 hits

https://www.amazon.de[6]

- "Quantenmechanik" → Over 3,000 hits (softcover, hardcover)

https://www.amazon.com[6]

- "Quantum mechanics" → Over 4,000 hits

https://books.google.com[7]

- "Quantenmechanik" → 227,000 hits
- "Quantum mechanics" → 5,800,000 hits

https://isbndb.com[8]

- "Quantum Mechanics" → 2,462 hits (Books)

https://link.springer.com

- "Quantenmechanik" → 993 hits (Books)
- "Quantum mechanics" → 3,926 hits (Books)

https://www.dnb.de

- "Quantenmechanik" → 1,572 hits (Bücher)
- "Quantum mechanics" → 577 hits (Bücher)

https://www.taylorfrancis.com

- "Quantum mechanics" → 540 hits (Books)

https://www.bookfinder.com

- "Quantum Mechanics" → Ca. 1,300 (New or Used)

https://ieeexplore.ieee.org

- "Quantum Mechanics" → 97 hits

https://en.wikipedia.org/wiki/List_of_textbooks_on_classical_mechanics_and_quantum_mechanics

- 11+8 entries

https://math.ucr.edu/home/baez/physics/Administrivia/booklist.html#quantum-mechanics[9]

- 28 entries (collected between 1994–1997)

V. ANALYSIS

Some qualitative analysis (basic statistics) was performed on the search-results. This survey is dealing with missing, inaccurate, etc. data. Or information, that is available, but slightly wrong (e.g. date of publication). Refer to Quality for further detail. All databases (search engines) were accessed from German networks without login-account for non-customized (unbiased, unfiltered) results.

VI. QUALITY

Major authors (names) are part of the list, but also rather unknown works are included. The term 'unknown' is up for definition (say, "my Students know about my book"), but in principle, the name "John von Neumann" is well known in QM world. Contrary to the preferences of "best book", "cheapest", "shortest" or "most advanced", etc. to answer those questions was not the intention. The number of pages, if available, is a dependable on the edition and book type, hence a qualitative indicator, but not part of the resulting list. ISBNs usually resolve well (point to book), but despite careful checking, some do not resolve, are wrong or point to other editions. Some ISBNs are newly reversely assigned. Here, the results of identifying an item can be poor. The year might be shifted by ±1, depending on how entries are counted (i.e. November 1978 listed as 1979, for reason of publication process or else). Nevertheless, the aggregated bibliography was checked carefully for mistakes, e.g. added dots '.' at end of title or wrongly spelled author names were cleared with best efforts.[10] Primarily, core-attributes (Author, Title, Year, ISBN or DOI, Publisher, Edition) are part of the collection.

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[5] Buchhandel is linked to VLB, which lists books since over 45 years.

[6] A large number of 'sponsored' results; same list of results across various categories, etc.

[7] Other search-engines (new or old, good or bad) were ignored.

[8] Website wasn't loading "more results", however many books were added from here.

[9] List by Physicist John Baez & Co., UC Riverside, CA, USA.

[10] It was tried to use the print-names, as they appear on covers.

More than one ISBN usually means several print types (softcover, hardcover, e-book). Most new works from the last decade have a DOI assigned. Many items starting from 1970 have an ISBN assigned. Certain classic works have been reprinted, republished, or digitized as mentioned earlier. It is worth knowing that several books by the publisher Dover Publications rely on books which were published over five decades ago, but have newer publication dates.

VII. OUTLOOK

Future surveying activities might include the refinement of search criteria (Scope), search databases (Countries, OA[11]), advanced description of results. Other ideas could be the derivation of actual content (e.g. survey mathematical-QM books) based on this list. Moreover, the identification of items by QM-framework (Traditional, Logical, Algebraic, Operational approaches) in relation to available literature would be a task. Of course, new literature is always in preparation and being added globally, henceforth maintenance is suggested.

VIII. SUMMARY

A qualitative survey on Quantum Mechanics textbooks was conducted. The collection includes all expertise levels and covers mainline publications since 1922. The collection also contains Russian and German titles, too. Tailoring of scope was needed to arrive at a final set. Selection criteria and manual re-work of items allowed for some qualitative insights. Students or researchers looking for QM textbooks are welcome to take a look at the resulting list. The set allows for QM literature-discoveries beyond the typical search-engine results.

A. Final words

The output (list of textbooks) is pre-formatted. It is worth looking at QM from many perspectives. Finally, as a hint, some older books (some of them *out-of-print*) have been digitized (OCR) and archived at the Internet Archive, e.g. the classic books of Tomonaga.

REFERENCES

Reiche, F. *Die Quantentheorie, ihr Ursprung und ihre Entwicklung*. Springer, Berlin, 1921. ISBN 978-3-642-92149-0 978-3-642-90292-5.

Bohr, N. *Über die Quantentheorie der Linienspektren*. Vieweg & Teubner, 1923. ISBN 978-3-663-20207-3 978-3-663-19868-0.

Haas, A. E. *Das Naturbild der neuen Physik*. De Gruyter, Berlin, 2., wesentlich verm. u. verb. aufl. edition, 1924. ISBN 978-3-11-113476-5.

Born, M. *Probleme der Atomdynamik: Erster Teil: Die Struktur des Atoms. Zweiter Teil: Die Gittertheorie des Festen Zustandes*. Springer, 1926. ISBN 978-3-642-99600-9 978-3-642-98785-4.

Bothe, W., Franck, J., Jordan, P., Kulenkampff, H., Ladenburg, R., Noddack, W., Pauli, W., Pringsheim, P., Geiger, H., and Scheel, K. *Quanten*. Springer Berlin Heidelberg, Berlin Heidelberg, 1926. ISBN 978-3-642-99593-4.

Smekal, A. *Allgemeine Grundlagen der Quantenstatistik und Quantentheorie*. B. G. Teubner, Leipzig, 1926. ISBN 978-3-663-16248-3 978-3-663-15671-0.

Frenkel, J. *Einführung in die Wellenmechanik*. Springer, 1929. ISBN 978-3-642-91555-0 978-3-642-89698-9.

Konen, H., editor. *Licht und Materie*. Springer, Berlin, 1929. ISBN 978-3-642-90785-2. doi:10.1007/978-3-642-90785-2.

Born, M. and Jordan, P. *Elementare Quantenmechanik*. Springer Berlin Heidelberg, Berlin Heidelberg, 1930. ISBN 978-3-662-00271-1 978-3-662-00291-9. doi:10.1007/978-3-662-00291-9.

Bethe, H., Hund, F., Mott, N. F., Pauli, W., Rubinowicz, A., Wentzel, G., and Smekal, A. *Quantentheorie*. Springer, Berlin, 1933. ISBN 978-3-642-52619-0 978-3-642-52565-0.

Heisenberg, W. *The Physical Principles of the Quantum Theory*. Dover Publications, New York, 1950. ISBN 978-0-486-60113-7.

Thirring, W. *Einführung in die Quantenelektrodynamik*. Franz Deuticke, Wien, 1955.

Blochinzew, D. I. *Grundlagen der Quantenmechanik*, volume 4 of *Hochschulbücher für Physik*. Deutscher Verl. d. Wiss., Berlin, 2. aufl. edition, 1958.

McConnell, J. *Quantum Particle Dynamics*. Series in Physics. North-Holland Publishing Company (Interscience Publishers Inc.), 1958.

Schwinger, J. *Selected Papers on Quantum Electrodynamics*. Dover Publications, New York, 1958. ISBN 978-0-486-60444-2.

Thirring, W. *Principles of Quantum Electrodynamics*. Pure and Applied Physics. Academic Press, 1958.

Bogoljubov, N. N. and Širkov, D. V. *Introduction to the Theory of Quantized Fields*. Number 3 in Interscience Monographs in Physics and Astronomy. Wiley-Interscience, New York, 1. aufl edition, 1959. ISBN 978-0-470-08613-1.

Wigner, E. P. *Group Theory*. Pure and Applied Physics. Academic Press, New York, 1959.

Bates, D. R. *Quantum Theory I. Elements*. Pure and Applied Physics. Academic Press, New York and London, 1961.

Bates, D. R. *Quantum Theory II. Aggregates of Particles*. Pure and Applied Physics. Academic Press, New York and London, 1962a.

Bates, D. R. *Quantum Theory III. Radiation and High Energy Physics*. Pure and Applied Physics. Academic Press, New York and London, 1962b.

Ikenberry, E. *Quantum Mechanics for Mathematicians and Physicists*. Oxford University Press, New York, 1962.

Tomonaga, S. *Quantum Mechanics I*. North-Holland Publishing Company, Amsterdam, 1962.

Gurney, R. W. *Elementary Quantum Mechanics*. University of Nebraska Press, Lincoln, 1963.

[11] For example https://www.doabooks.org/en or https://www.mdpi.com/books, etc.

Kahan, T. *Quantentheorie: Eine Einführung in die Theorie der Materie und der Strahlung*. Akademie-Verlag, Berlin, 1963.

Bjorken, J. D. and Drell, S. D. *Relativistic Quantum Mechanics*. International Series in Pure and Applied Physics. McGraw-Hill, New York, 1964. ISBN 978-0-07-005493-6.

Blokhintsev, D. I. *Quantum Mechanics*. Springer Netherlands, Dordrecht, 1964. ISBN 978-94-010-9713-0 978-94-010-9711-6. doi:10.1007/978-94-010-9711-6.

Berestetskii, V. B. and Akhiezer, A. I. *Quantum Electrodynamics*. Interscience Publishers (John Wiley & Sons), second edition, 1965.

Bjorken, J. D. and Drell, S. D. *Relativistic Quantum Fields*. International Series in Pure and Applied Physics. McGraw-Hill, New York, 1965. ISBN 978-0-07-005494-3.

Kaempffer, F. A. *Concepts in Quantum Mechanics*. Pure and Applied Physics. Academic Press, 1965.

Katz, A. *Classical Mechanics, Quantum Mechanics, Field Theory*. Academic Press, 1965.

Macke, W. *Quanten*, volume 3. Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig, 3rd edition, 1965a.

Macke, W. *Quanten und Relativität*, volume 6. Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig, second edition, 1965b.

Dicke, R. H. and Wittke, J. P. *Introduction to Quantum Mechanics*. Addison Wesley, Estados Unidos, 1966. ISBN 978-0-201-01510-2.

Jammer, M. *The Conceptual Development of Quantum Mechanics*. McGraw-Hill, 1966.

Kompaneyets, A. *Basic Concepts in Quantum Mechanics*. Reinhold Publishing Corp., 1966.

Sokolov, A. A., Loskutov, Y. M., and Ternov, I. M. *Quantum Mechanics*. Holt, Rinehart and Winston, 1966.

Stehle, P. *Quantum Mechanics*. Holden-Day, 1966.

Tomonaga, S. *Quantum Mechanics II*. North-Holland Publishing Company (John Wiley & Sons), Amsterdam, 1966.

Wilcox, C. H. *Perturbation Theory And Its Application In Quantum Mechanics*. Wiley, 1966.

Dawydow, A. S. *Quantenmechanik*. Number 39 in Hochschulbücher für Physik. Deutscher Verl. d. Wiss., Berlin, 1. aufl. edition, 1967.

Pohl, H. A. *Quantum Mechanics for Science and Engineering*. Prentice Hall, 1967.

Schneider, F. *Einführung in die Quantentheorie*. Springer Vienna, Vienna, 1967. ISBN 978-3-211-80832-0 978-3-7091-7957-4. doi:10.1007/978-3-7091-7957-4.

Ter Haar, D. *Old Quantum Theory*. Elsevier Science, 1967. ISBN 978-1-4831-5196-0.

Slater, J. C. *Quantum Theory of Matter*. International Series in Pure and Applied Physics. McGraw-Hill Book Company, 1968.

Ziock, K. *Basic Quantum Mechanics*. John Wiley & Sons, 1969.

Gombás, P. and Kisdi, D. *Einführung in die Quantenmechanik und ihre Anwendungen*. Springer-Vienna, Vienna, 1970. ISBN 978-3-7091-7976-5 978-3-7091-7975-8. doi:10.1007/978-3-7091-7975-8.

Hermann, R. *Lie Algebras and Quantum Mechanics*. Benjamin, 1970.

Longini, R. L. *Introductory Quantum Mechanics for the Solid State*. Wiley-Interscience, New York, 1970. ISBN 978-0-471-54444-9.

Mizushima, M. *Quantum Mechanics of Atomic Spectra and Atomic Structure*. W. A. Benjamin, New York, 1970. ISBN 978-0-8053-7120-8.

Rodberg, L. S. and Thaler, R. M. *Introduction to the Quantum Theory of Scattering*. Number 26 in Pure and Applied Physics. Academic Press, New York, 2nd print edition, 1970. ISBN 978-0-12-591950-0.

Anderson, E. E. *Modern Physics and Quantum Mechanics*. Saunders, Philadelphia, 1971. ISBN 978-0-7216-1220-1.

Barriol, J. *Elements of Quantum Mechanics with Chemical Applications*. Barnes & Noble International Textbook Series. Barnes & Noble, New York, 1971. ISBN 978-0-389-00450-9.

Fano, G. *Mathematical Methods of Quantum Mechanics*. McGraw-Hill, New York, 1971. ISBN 978-0-07-019924-8.

Flügge, S. *Practical Quantum Mechanics*. Springer Berlin Heidelberg, Berlin Heidelberg, 1971. ISBN 978-3-540-65035-5 978-3-642-61995-3. doi:10.1007/978-3-642-61995-3.

Rapp, D. *Quantum Mechanics*. Holt, Rinehart and Winston, New York, 1971. ISBN 978-0-03-081294-1.

Simon, B. *Quantum Mechanics for Hamiltonians Defined as Quadratic Forms*. Princeton Series in Physics. Princeton University Press, Princeton, N.J, 1971. ISBN 978-0-691-08090-1.

Aitchison, I. J. R. *Relativistic Quantum Mechanics*. Macmillan, London, 1972. ISBN 978-0-333-12694-3.

Källen, G., Iddings, C. K., and Mizushima, M. *Quantum electrodynamics*. Springer, 1972. ISBN 978-3-540-05574-7 978-0-387-05574-9 978-3-642-88021-6.

Mott, N. F. *Elementary Quantum Mechanics*. Number 22 in The Wykeham Science Series. Wykeham, London, 1972. ISBN 978-0-85109-310-9 978-0-85109-270-6.

Alonso, M. and Valk, H. *Quantum Mechanics: Principles and Applications*. Addison-Wesley, 1973.

Audi, M. *The Interpretation of Quantum Mechanics*. University of Chicago Press, Chicago, 1973. ISBN 978-0-226-03177-4.

Baym, G. A. *Lectures on Quantum Mechanics*. Lecture Notes and Supplements in Physics. Benjamin, Reading, Mass., 2. print., with corr edition, 1973. ISBN 978-0-8053-0665-1 978-0-8053-0664-4.

Das, T. P. *Relativistic Quantum Mechanics of Electrons*. Harper's Physics Series. Harper & Row, New York, 1973. ISBN 978-0-06-041498-6.

Gillespie, D. T. *A Quantum Mechanics Primer*. International Textbook Co., 1973. ISBN 978-0-7002-2290-2.

Jauch, J. M. *Foundations of Quantum Mechanics*. Addison-Wesley Series in Advanced Physics. Addison-Wesley, Reading, MA, 2. printing edition, 1973. ISBN 978-0-201-03298-7.

Landé, A. *Quantum Mechanics in a New Key*. An Exposition-university Book. Exposition Press, New York, 1st ed. edition, 1973. ISBN 978-0-682-47667-6.

Levič, V. G., Levič, V. G., Mjamlin, V. A., and Vdovin, J. A. *Theoretical Physics. 3: Quantum Mechanics*. North-Holl. Publ. Comp, Amsterdam, 1973. ISBN 978-0-7204-0179-0.

Scheibe, E. *The Logical Analysis of Quantum Mechanics*. Number v. 56 in International Series of Monographs in Natural Philosophy. Pergamon Press, Oxford, New York, 1st ed. edition, 1973. ISBN 978-0-08-017158-6.

Wieder, S. *The Foundations of Quantum Theory*. Academic Press (Elsevier), 1973. ISBN 978-0-12-749050-2. doi: 10.1016/B978-0-12-749050-2.X5001-3.

Gottfried, K. *Quantum Mechanics*. Benjamin, Reading, MA, 1974.

Matthews, P. T. *Introduction to Quantum Mechanics*. McGraw-Hill, London ; New York, 3rd edition, 1974. ISBN

978-0-07-084036-2.

Schpolski, E. W. *Atomphysik I*, volume 8 of *Hochschulbücher für Physik*. Deutscher Verl. d. Wiss., Berlin, 15. aufl. edition, 1975.

Tang, C. L. and Rabin, H., editors. *Quantum Electronics: A Treatise I*. Elsevier, 1975. ISBN 978-0-12-574001-2. doi: 10.1016/B978-0-12-574001-2.X5001-1.

Davydov, A. S. *Quantum Mechanics*. Pergamon Press, Oxford ; New York, 1976. ISBN 978-0-08-020437-6.

Fock, V. A. *Fundamentals of Quantum Mechanics*. Mir Publishers Moscow, 1978. ISBN 978-0-8285-5197-7.

French, A. P. and Taylor, E. F. *An Introduction to Quantum Physics*. Norton, New York, 1978. ISBN 978-0-393-09106-9 978-0-393-09015-4.

Schpolski, E. W. *Atomphysik II*, volume 9 of *Hochschulbücher für Physik*. Deutscher Verl. d. Wiss., Berlin, 11. aufl. edition, 1978.

Fick, E. *Einführung in die Grundlagen der Quantentheorie*. Akademische Verlagsgesellschaft, Frankfurt am Main, 4. aufl., unveränd. nachdr. d. 3. aufl. edition, 1979.

Simon, B. *Functional Integration and Quantum Physics*. Academic Press, New York, 1979. ISBN 978-0-08-087402-9.

Yourgrau, W. and Mandelstam, S. *Variational Principles in Dynamics and Quantum Theory*. Dover Publications, New York, 1979. ISBN 978-0-486-63773-0.

Pauli, W. *General Principles of Quantum Mechanics*. Springer, Berlin, 1980. ISBN 978-3-540-09842-3 978-0-387-09842-5.

Tarasov, L. V. *Basic Concepts of Quantum Mechanics*. Mir Publishers Moscow, two thousand, twenty-first edition, 1980.

Leray, J. *Lagrangian analysis and quantum mechanics: a mathematical structure related to asymptotic expansions and the Maslov index*. MIT Press, Cambridge, Mass, 1981. ISBN 978-0-262-12087-6.

Cassels, J. M. *Basic Quantum Mechanics*. Macmillan ; Distributed by Scholium International, London : Great Neck, N.Y, second edition, 1982. ISBN 978-0-333-31768-6 978-0-333-18599-5.

Newton, R. G. *Scattering Theory of Waves and Particles*. Springer Berlin Heidelberg, Berlin Heidelberg, 1982. ISBN 978-3-642-88130-5 978-3-642-88128-2. doi:10.1007/978-3-642-88128-2.

Barut, A. O., editor. *Quantum Theory, Groups, Fields, and Particles*. Number 4 in Mathematical Physics Studies. D. Reidel ; Kluwer Boston, Dordrecht ; Boston, 1983. ISBN 978-90-277-1552-4.

Prugovečki, E. *Stochastic Quantum Mechanics and Quantum Spacetime*. Springer Netherlands, Dordrecht, 1984. ISBN 978-94-010-8501-4 978-94-009-4492-3. doi:10.1007/978-94-009-4492-3.

Rydnik, V. *ABC's of Quantum Mechanics*. Mir Publishers Moscow, two thousand, twentieth edition, 1984.

Eisberg, R. M. and Resnick, R. *Quantum Physics of Atoms, Molecules, Solids, Nuclei, and Particles*. Wiley, New York, second edition, 1985. ISBN 978-0-471-87373-0.

Pauling, L. and Wilson, E. B. *Introduction to Quantum Mechanics: With Applications to Chemistry*. Dover Publications, New York, NY, 1985. ISBN 978-0-486-64871-2.

Bethe, H. A. and Jackiw, R. W. *Intermediate Quantum Mechanics*. Benjamin/Cummings Pub. Co, Menlo Park, CA, 3rd edition, 1986. ISBN 978-0-8053-0757-3.

Das, A. and Melissinos, A. C. *Quantum Mechanics: A Modern Introduction*. Gordon and Breach Science Publishers, New York, 1986. ISBN 978-2-88124-053-9 978-2-88124-052-2.

Sudbery, A. *Quantum Mechanics and the Particles of Nature: An Outline for Mathematicians*. Cambridge University Press, Cambridge [Cambridgeshire] ; New York, 1986. ISBN 978-0-521-25891-3 978-0-521-27765-5.

Fermi, E. *Notes on Quantum Mechanics: A Course given by Enrico Fermi at the University of Chicago*. University of Chicago press, Chicago London, 1987. ISBN 978-0-226-24361-0.

Glimm, J. and Jaffe, A. *Quantum Physics: A Functional Integral Point of View*. Springer-Verlag, New York, second edition, 1987. ISBN 978-0-387-96476-8 978-0-387-96477-5.

Kittel, C. and Fong, C. Y. *Quantum Theory of Solids*. Wiley, New York, 2nd rev. print edition, 1987. ISBN 978-0-471-62412-7.

Sakurai, J. J. *Advanced Quantum Mechanics*. Addison-Wesley, Redwood-City, CA, 1987. ISBN 978-0-201-06710-1.

Schiff, L. I. *Quantum Mechanics*. International Series in Pure and Applied Physics. McGraw-Hill, New York, 3rd, 24th print edition, 1987. ISBN 978-0-07-085643-1.

Gudder, S. *Quantum Probability*. Academic Press, 1988. ISBN 978-0-08-091848-8.

Noz, M. E., Kim, Y. S., and Wigner, E. P., editors. *Special Relativity and Quantum Theory: A Collection of Papers on the Poincaré Group*. Fundamental Theories of Physics. Kluwer Academic Publishers, Dordrecht ; Boston, 1988. ISBN 978-90-277-2799-2.

Bohm, D. *Quantum Theory*. Dover Publications, New York, 1989. ISBN 978-0-486-65969-5.

Flügge, S. *Rechenmethoden der Quantentheorie: Elementare Quantenmechanik Dargestellt in Aufgaben und Lösungen*, volume 6 of *Heidelberger Taschenbücher*. Springer Berlin Heidelberg, Berlin Heidelberg, 1990. ISBN 978-3-540-51367-4 978-3-642-97195-2. doi:10.1007/978-3-642-97195-2.

Galindo, A. and Pascual, P. *Quantum Mechanics I*. Texts and Monographs in Physics. Springer-Verlag, Berlin ; New York, 1990. ISBN 978-3-540-51406-0 978-0-387-51406-2.

Gutzwiller, M. C. *Chaos in Classical and Quantum Mechanics*. Number v. 1 in Interdisciplinary Applied Mathematics. Springer-Verlag, New York, 1990. ISBN 978-0-387-97173-5 978-3-540-97173-3.

Atkins, P. W. *Quanta: A Handbook of Concepts*. Oxford University Press, Oxford ; New York, second edition, 1991. ISBN 978-0-19-855573-5.

Brandt, S. and Dahmen, H. D. *Quantum Mechanics on the Macintosh*. Springer New York, New York, NY, 1991. ISBN 978-1-4684-0420-3 978-1-4684-0418-0. doi:10.1007/978-1-4684-0418-0.

Callaway, J. *Quantum Theory of the Solid State*. Academic Press, Boston, second edition, 1991. ISBN 978-0-12-155203-9 978-0-12-155204-6.

Galindo, A. and Pascual, P. *Quantum Mechanics II*. Texts and Monographs in Physics. Springer-Verlag, Berlin ; New York, 1991. ISBN 978-3-540-52309-3 978-0-387-52309-5.

Guidry, M. W. *Gauge Field Theories: An Introduction with Applications*. Wiley, New York, 1991. ISBN 978-0-471-63117-0.

Scadron, M. D. *Advanced Quantum Theory and Its Applications through Feynman Diagrams*. Texts and Monographs in Physics. Springer-Verlag, Berlin ; New York, second edition, 1991. ISBN 978-3-540-53681-9 978-0-387-53681-1.

Smith, H. *Introduction to Quantum Mechanics*. World Scientific, Singapore New Jersey London, 1991. ISBN 978-981-02-0475-4.

Baez, J. C., Segal, I. E., and Zhou, Z. *Introduction to Algebraic and Constructive Quantum Field Theory*. Princeton Series in Physics. Princeton University Press, Princeton, N.J, 1992. ISBN 978-0-691-08546-3.

Byron, F. W. and Fuller, R. W. *Mathematics of Classical and Quantum Physics*. Dover Publications, New York, 1992. ISBN 978-0-486-67164-2.

Mandl, F. *Quantum Mechanics*. The Manchester Physics Series. Wiley, Chichester ; New York, 1992. ISBN 978-0-471-92971-0 978-0-471-93155-3.

Mattuck, R. D. *A Guide to Feynman Diagrams in the Many-Body Problem*. Dover Books on Physics and Chemistry. Dover Publications, New York, second edition, 1992. ISBN 978-0-486-67047-8.

Fanchi, J. R. *Parametrized Relativistic Quantum Theory*. Number v. 56 in Fundamental Theories of Physics. Kluwer Academic, Dordrecht ; Boston, 1993. ISBN 978-0-7923-2376-1.

Gross, F. *Relativistic Quantum Mechanics and Field Theory*. Wiley, New York, 1993. ISBN 978-0-471-59113-9.

Bader, R. F. W. *Atoms in Molecules: A Quantum Theory*. Number 22 in The International Series of Monographs on Chemistry. Clarendon Press ; Oxford University Press, Oxford [England] : New York, 1994. ISBN 978-0-19-855865-1.

Demuth, M., Demuth, M., Exner, P., Neidhardt, H., Zagrebnov, V., and International Conference on Mathematical Results in Quantum Mechanics. *Mathematical Results in Quantum Mechanics: International Conference in Blossin (Germany), May 17-21, 1993*. Operator Theory: Advances and Applications. Springer, 1994. ISBN 978-3-0348-8545-4 978-3-0348-9673-3.

Milonni, P. W. *The Quantum Vacuum: An Introduction to Quantum Electrodynamics*. Academic Press, Boston, 1994. ISBN 978-0-08-057149-2.

Schweber, S. S. *QED and the Men Who Made It: Dyson, Feynman, Schwinger, and Tomonaga*. Princeton Series in Physics. Princeton University Press, Princeton, NJ, 1994. ISBN 978-0-691-03685-4 978-0-691-03327-3.

Shankar, R. *Principles of Quantum Mechanics*. Plenum Press, New York, second edition, 1994. ISBN 978-0-306-44790-7.

Thirring, W. *Lehrbuch der mathematischen Physik. 3: Quantenmechanik von Atomen u. Molekülen*. Springer, Wien, 2., neubearb. aufl edition, 1994. ISBN 978-3-211-82535-8 978-0-387-82535-9. doi:10.1007/978-3-7091-6646-8.

Fermi, E. and Schluter, R. A. *Notes on Quantum Mechanics: A Course given by Enrico Fermi at the University of Chicago*. University of Chicago Press, Chicago, 2nd ed edition, 1995. ISBN 978-0-226-24381-8.

Ferrero, M. and van der Merwe, A., editors. *Fundamental Problems in Quantum Physics*. Springer Netherlands, Dordrecht, 1995. ISBN 978-90-481-4608-6 978-94-015-8529-3. doi:10.1007/978-94-015-8529-3.

McGervey, J. D. *Quantum Mechanics: Concepts and Applications*. Academic Press, San Diego, 1995. ISBN 978-1-4832-8885-7.

Schmüser, P. *Feynman-Graphen und Eichtheorien für Experimentalphysiker*. Springer, Berlin Heidelberg, 2. neubearb. aufl edition, 1995. ISBN 978-3-540-58486-5.

Busch, P., Lahti, P. J., and Mittelstaedt, P. *The Quantum Theory of Measurement*. Springer, Berlin, 1996. ISBN 978-3-540-61355-8 978-3-662-14104-5. doi:10.1007/978-3-540-37205-9.

Landau, R. H. *Quantum Mechanics II: A Second Course in Quantum Theory*. Wiley, New York, 2nd ed edition, 1996. ISBN 978-0-471-11608-0.

Ryder, L. H. *Quantum Field Theory*. Cambridge University Press, Cambridge ; New York, second edition, 1996. ISBN 978-0-521-47242-5 978-0-521-47814-4.

Schroeck, F. E. *Quantum Mechanics on Phase Space*. Springer Netherlands, Dordrecht, 1996. ISBN 978-90-481-4639-0 978-94-017-2830-0. doi:10.1007/978-94-017-2830-0.

Szabo, A. and Ostlund, N. S. *Modern Quantum Chemistry: Introduction to Advanced Electronic Structure Theory*. Dover Publications, Mineola, NY, 1996. ISBN 978-0-486-69186-2.

von Neumann, J. *Mathematical Foundations of Quantum Mechanics*. Princeton Landmarks in Mathematics and Physics. Princeton University Press, Princeton, 1996a. ISBN 978-0-691-02893-4 978-0-691-08003-1.

von Neumann, J. *Mathematische Grundlagen der Quantenmechanik*. Number 38 in Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen. Springer, Berlin Heidelberg, 2. aufl edition, 1996b. ISBN 978-3-540-59207-5.

Hannabuss, K. *An Introduction to Quantum Theory*. Number 1 in Oxford Graduate Texts in Mathematics. Clarendon Press ; Oxford University Press, Oxford : New York, 1997. ISBN 978-0-19-853794-6.

Singh, J. *Quantum Mechanics: Fundamentals and Applications to Technology*. Wiley, New York, 1997. ISBN 978-0-471-15758-8.

Tomonaga, S. *The Story of Spin*. University of Chicago Press, Chicago, 1997. ISBN 978-0-226-80794-2.

Elbaz, E. *Quantum: The Quantum Theory of Particles, Fields, and Cosmology*. Texts and Monographs in Physics. Springer, Berlin ; New York, 1998. ISBN 978-3-540-62093-8.

Merzbacher, E. *Quantum Mechanics*. Wiley, New York, 3rd edition, 1998. ISBN 978-0-471-88702-7.

Reichenbach, H. *Philosophic Foundations of Quantum Mechanics*. Dover Publications, Mineola, NY, 1998. ISBN 978-0-486-40459-2.

Araki, H. *Mathematical Theory of Quantum Fields*. Number 101 in The International Series of Monographs on Physics. Clarendon Press, Oxford ; New York, 1999. ISBN 978-0-19-851773-3.

Omnès, R. *Understanding Quantum Mechanics*. Princeton University Press, 1999. ISBN 978-0-691-22192-2. doi:10.1515/9780691221922.

Scherz, U. *Quantenmechanik: eine Einführung mit Anwendungen auf Atome, Moleküle und Festkörper*. Teubner Studienbücher Physik. Teubner, Stuttgart Leipzig, 1999. ISBN 978-3-519-03246-5.

Bransden, B. H. and Joachain, C. J. *Quantum Mechanics*. Pearson/Prentice Hall, 2. ed., [repr.] edition, 2000. ISBN 978-0-582-35691-7.

Greiner, W. *Relativistic Quantum Mechanics. Wave Equations*. Springer Berlin Heidelberg, Berlin, Heidelberg, 2000. ISBN 978-3-540-67457-3 978-3-662-04275-5. doi:10.1007/978-3-662-04275-5.

Hecht, K. T. *Quantum Mechanics*. Springer New York, New York, NY, 2000. ISBN 978-1-4612-1272-0.

Migdal, A. B. *Qualitative Methods in Quantum Theory*. Advanced Book Classics. CRC Press, Taylor & Francis Group, Cambridge, MA, 2000. ISBN 978-0-7382-0302-7.

Müller, V. F. *Quantenmechanik*. Oldenbourg, München, 2000. ISBN 978-3-486-24975-0.

Schwinger, J. *Quantum Kinematics and Dynamics*. Advanced Book Classics. CRC Press, Taylor & Francis Group, Cambridge, MA, 2000. ISBN 978-0-7382-0303-4.

Bell, M., Gottfried, K., and Veltman, M., editors. *John S. Bell on the Foundations of Quantum Mechanics*. World Scientific, Singapore, 2001. ISBN 978-981-02-4688-4 978-981-02-4687-7.

Dahl, J. P. *Introduction to the Quantum World of Atoms and Molecules*. World Scientific, Singapore ; River Edge, NJ, 2001. ISBN 978-981-02-4565-8.

Dirac, P. A. M. *Lectures on Quantum Mechanics*. Dover Publications, Mineola, NY, 2001. ISBN 978-0-486-41713-4.

Dürr, D. *Bohmsche Mechanik als Grundlage der Quantenmechanik*. Springer Berlin Heidelberg, Berlin Heidelberg, 2001. ISBN 978-3-642-62544-2 978-3-642-56507-6. doi: 10.1007/978-3-642-56507-6.

Fayer, M. D. *Elements of Quantum Mechanics*. Oxford University Press, New York, 2001. ISBN 978-0-19-514195-5.

Greiner, W. *Quantum Mechanics*. Springer Berlin Heidelberg, Berlin, Heidelberg, 2001. ISBN 978-3-540-67458-0 978-3-642-56826-8. doi:10.1007/978-3-642-56826-8.

Schwinger, J. *Quantum Mechanics*. Springer Berlin Heidelberg, Berlin, Heidelberg, 2001. ISBN 978-3-642-07467-7 978-3-662-04589-3. doi:10.1007/978-3-662-04589-3.

Weaver, N. *Mathematical Quantization*. Studies in Advanced Mathematics. Chapman & Hall/CRC, Boca Raton, 2001. ISBN 978-1-58488-001-1.

de Muynck, W. M. *Foundations of Quantum Mechanics, an Empiricist Approach*. Springer Netherlands, Dordrecht, 2002. ISBN 978-1-4020-0932-7 978-0-306-48047-8. doi: 10.1007/0-306-48047-6.

Marchildon, L. *Quantum Mechanics: From Basic Principles to Numerical Methods and Applications*. Advanced Texts in Physics. Springer, Berlin ; New York, 2002. ISBN 978-3-540-43342-2.

Polkinghorne, J. C. *Quantum Theory: A Very Short Introduction*. Number 69 in Very Short Introductions. Oxford University Press, Oxford ; New York, 2002. ISBN 978-0-19-280252-1.

Straumann, N. *Quantenmechanik*. Springer-Lehrbuch. Springer Berlin Heidelberg, Berlin, Heidelberg, 2002. ISBN 978-3-540-42888-6 978-3-642-55961-7. doi:10.1007/978-3-642-55961-7.

Thirring, W. *Quantum Mathematical Physics: Atoms, Molecules and Large Systems*. Springer, Berlin ; New York, second edition, 2002. ISBN 978-3-540-43078-0.

Weder, R., Exner, P., and Grébert, B., editors. *Mathematical Results in Quantum Mechanics: A Conference on QMATH-8, Mathematical Results in Quantum Mechanics, Universidad Nacional Autonoma de México, Taxco, México, December 10-14, 2001*. Number 307 in Contemporary Mathematics. American Mathematical Society, Providence, 2002. ISBN 978-0-8218-2900-4.

Chester, M. *Primer of Quantum Mechanics*. Dover Publications, Mineola, NY, 2003. ISBN 978-0-486-42878-9.

DeWitt, B. S. *The Global Approach to Quantum Field Theory (2 Vols.)*. Number 114 in Oxford Science Publications. Oxford University Press, Oxford ; New York, 2003. ISBN 978-0-19-851093-2 978-0-19-852790-9 978-0-19-852791-6 978-0-19-871286-2 978-0-19-871287-9.

Gasiorowicz, S. *Quantum Physics*. Wiley, Hoboken, NJ, 3rd wiley international ed edition, 2003. ISBN 978-0-471-05700-0 978-0-471-42945-6.

Gottfried, K. and Yan, T.-M. *Quantum Mechanics: Fundamentals*. Graduate Texts in Contemporary Physics. Springer New York, New York, NY, 2003. ISBN 978-0-387-22023-9 978-0-387-21623-2. doi:10.1007/978-0-387-21623-2.

Hamhalter, J. *Quantum Measure Theory*. Number 134 in Fundamental Theories of Physics. Kluwer Academic Publishers, Dordrecht ; Boston, 2003. ISBN 978-1-4020-1714-8.

Liboff, R. L. *Introductory Quantum Mechanics*. Addison-Wesley, San Francisco, fourth edition, 2003. ISBN 978-0-8053-8714-8.

McWeeny, R. *Quantum Mechanics: Principles and Formalism*. Dover Publications, 2003. ISBN 978-0-486-42829-1.

Pietschmann, H. *Quantenmechanik verstehen: eine Einführung in den Welle-Teilchen-Dualismus für Lehrer und Studierende*. Springer, Berlin Heidelberg, 1. aufl., korr. nachdr edition, 2003. ISBN 978-3-540-42977-7.

Cohen-Tannoudji, C., Dupont-Roc, J., Grynberg, G., and Cohen-Tannoudji, C. *Photons and Atoms: Introduction to Quantum Electrodynamics*. Physics Textbook. Wiley-VCH, Weinheim, 2004. ISBN 978-0-471-18433-1.

Haken, H. and Wolf, H. C. *Atom- und Quantenphysik: Einführung in die experimentellen und theoretischen Grundlagen*. Springer-Lehrbuch. Springer, Berlin Heidelberg, 8., aktualisierte und erweiterte auflage edition, 2004. ISBN 978-3-642-62142-0 978-3-540-02621-1. doi: 10.1007/978-3-642-18519-9.

Holland, P. R. *The Quantum Theory of Motion: An Account of the de Broglie-Bohm Causal Interpretation of Quantum Mechanics*. Cambridge University Press, Cambridge, reprint, transferred to digital printing edition, 2004. ISBN 978-0-521-48543-2 978-0-521-35404-2.

Elitzur, A. C., Dolev, S., Kolenda, N., Dragoman, D., Dragoman, M., Elitzur, A. C., Silverman, M. P., Tuszynski, J., and Zeh, H. D., editors. *Quo Vadis Quantum Mechanics?* The Frontiers Collection. Springer Berlin Heidelberg, Berlin Heidelberg, 2005. ISBN 978-3-540-22188-3 978-3-540-26669-3. doi:10.1007/b137897.

Feynman, R. P. *Feynman's Thesis: A New Approach to Quantum Theory*. World Scientific, Hackensack, NJ, 2005. ISBN 978-981-256-366-8 978-981-256-380-4.

Itzykson, C. and Zuber, J.-B. *Quantum Field Theory*. Dover Books on Physics. Dover Publications, Mineola, NY, dover ed. edition, 2005. ISBN 978-0-486-44568-7.

Lawden, D. F. *The Mathematical Principles of Quantum Mechanics*. Dover Publications, Mineola, NY, dover ed edition, 2005. ISBN 978-0-486-44223-5.

Maggiore, M. *A Modern Introduction to Quantum Field Theory*. Number 12 in Oxford Master Series in Physics. Oxford University Press, Oxford ; New York, 2005. ISBN 978-0-19-852073-3 978-0-19-852074-0.

Nair, V. P. *Topics in Quantum Field Theory*. Graduate Texts in Contemporary Physics. Springer, New York, NY, 2005. ISBN 978-0-387-21386-6.

Park, D. A. *Introduction to the Quantum Theory*. Dover Books on Physics. Dover Publications, Mineola, NY, 3rd, 1st publ. edition, 2005. ISBN 978-0-486-44137-5.

Scherz, U. *Quantenmechanik: eine kompakte Einführung*. Teubner Studienbücher Physik. Teubner, Stuttgart Leipzig Wiesbaden, 1. aufl edition, 2005. ISBN 978-3-519-00521-6.

Schweber, S. S. *An Introduction to Relativistic Quantum Field Theory*. Dover, Mineola, NY, 2005. ISBN 978-0-486-44228-0.

Wachter, A. *Relativistische Quantenmechanik*. Springer-Lehrbuch. Springer, Berlin Heidelberg, 2005. ISBN 978-

3-540-22922-3. doi:10.1007/3-540-27484-7.

Asch, J., Joye, A., Beig, R., Beiglböck, W., Domcke, W., Englert, B.-G., Frisch, U., Hänggi, P., Hasinger, G., Hepp, K., Hillebrandt, W., Imboden, D., Jaffe, R. L., Lipowsky, R., v. Löhneysen, H., Ojima, I., Sornette, D., Theisen, S., Weise, W., Wess, J., and Zittartz, J., editors. *Mathematical Physics of Quantum Mechanics: Selected and Refereed Lectures from QMath9*, volume 690 of *Lecture Notes in Physics*. Springer Berlin Heidelberg, Berlin, Heidelberg, 2006. ISBN 978-3-540-31026-6 978-3-540-34273-1. doi: 10.1007/b11573432.

Englert, B.-G. *Lectures on Quantum Mechanics*. World Scientific, Hackensack, N.J, 2006. ISBN 978-981-256-790-1 978-981-256-791-8 978-981-256-970-7 978-981-256-971-4 978-981-256-972-1 978-981-256-973-8 978-981-256-974-5 978-981-256-975-2.

Gol'dman, I. I., Krivchenkov, V. D., Kogan, V. I., and Galitskii, V. M. *Problems in Quantum Mechanics*. Dover Publications, 2006. ISBN 0-486-45322-7.

Jackson, J. D. *Mathematics for Quantum Mechanics: An Introductory Survey of Operators, Eigenvalues, and Linear Vector Spaces*. Dover Books on Mathematics. Dover Publications, Mineola, NY, dover ed edition, 2006. ISBN 978-0-486-45308-8.

Jordan, T. F. *Linear Operators for Quantum Mechanics*. Dover Books on Mathematics. Dover Publications, Mineola, NY, repr., dover ed., 1. publ edition, 2006a. ISBN 978-0-486-45329-3.

Jordan, T. F. *Quantum Mechanics in Simple Matrix Form*. Dover Publications, Mineola, NY, 2006b. ISBN 978-0-486-44530-4.

Klauder, J. R. and Sudarshan, E. C. G. *Fundamentals of Quantum Optics*. Dover Publications, Mineola, NY, 2006. ISBN 978-0-486-45008-7.

Levi, A. F. J. *Applied Quantum Mechanics*. Cambridge University Press, Cambridge ; New York, 2nd ed edition, 2006. ISBN 978-0-521-86096-3.

Manoukian, E. B. *Quantum Theory – A Wide Spectrum*. Springer Netherlands, Dordrecht, 2006. ISBN 978-1-4020-4189-1. doi:10.1007/978-1-4020-4190-7.

Robinett, R. W. *Quantum Mechanics: Classical Results, Modern Systems, and Visualized Examples*. Oxford University Press, Oxford ; New York, 2nd ed edition, 2006. ISBN 978-0-19-853097-8.

Saller, H. *Operational Quantum Theory II*. Operational Physics. Springer, New York, 2006. ISBN 978-0-387-29199-4 978-0-387-29776-7.

Swanson, D. G. *Quantum Mechanics: Foundations and Applications*. CRC Press, 1st edition, 2006. ISBN 978-0-429-14785-2. doi:10.1201/b15900.

Zeidler, E. *Quantum Field Theory I: Basics in Mathematics and Physics*. Springer Berlin Heidelberg, Berlin Heidelberg, 2006. ISBN 978-3-540-34762-0 978-3-540-34764-4. doi:10.1007/978-3-540-34764-4.

Engesser, K., Gabbay, D. M., and Lehmann, D. *Handbook of Quantum Logic and Quantum Structures: Quantum Logic*. Elsevier Science, Burlington, 2007. ISBN 978-0-444-52870-4.

Erkoç, Ş. *Fundamentals of Quantum Mechanics*. Taylor & Francis, Boca Raton, 2007. ISBN 978-1-58488-732-4.

Landau, L. D. and Lifshitz, E. M. *Quantum Mechanics: Non-Relativistic Theory*. Number 3 in Theoretical Physics. Elsevier, Singapore, 3. ed., rev. and enl., authorized engl. reprint ed edition, 2007. ISBN 978-0-7506-3539-4 978-981-272-088-7 978-7-5062-4257-8.

Matta, C. F. and Boyd, R. J. *The Quantum Theory of Atoms in Molecules from Solid State to DNA and Drug Design*. Wiley-VCH : John Wiley [dist.], Weinheim, 2007. ISBN 9781280921612 9786610921614 9783527610709 9783527610693.

Prugovečki, E. *Quantum Mechanics in Hilbert Space*. Dover Publications, Mineola, NY, second edition, 2007. ISBN 978-0-486-45327-9.

Schwabl, F. *Quantum Mechanics*. Springer Berlin Heidelberg, Berlin, Heidelberg, 2007. ISBN 978-3-540-71932-8. doi: 10.1007/978-3-540-71933-5.

van der Waerden, B. L., editor. *Sources of Quantum Mechanics*. Dover Books on Physics. Dover Publications, Mineola, NY, reprint edition, 2007. ISBN 978-0-486-45892-2.

Angelini, L. *Meccanica quantistica: problemi scelti*. UNITEXT. Springer Milan, Milano, 2008. ISBN 978-88-470-0744-4 978-88-470-0745-1. doi:10.1007/978-88-470-0745-1.

Berestetskii, V. B., Lifshitz, E. M., Pitaevskij, L. P., and Landau, L. D. *Quantum Electrodynamics*. Number 4 in Course of Theoretical Physics / L. D. Landau and E. M. Lifshitz. Butterworth-Heinemann, Oxford, 2. ed., reprint edition, 2008. ISBN 978-0-7506-3371-0.

Blank, J., Exner, P., and Havlíček, M. *Hilbert Space Operators in Quantum Physics*. Theoretical and Mathematical Physics. Springer; AIP Press, Dordrecht, second edition, 2008. ISBN 978-1-4020-8869-8.

Bowman, G. E. *Essential Quantum Mechanics*. Oxford University Press, Oxford ; New York, 2008. ISBN 978-0-19-922892-8.

Durrant, A. *Quantum Physics of Matter*. Open university, Milton Keynes, 2008. ISBN 978-0-7492-1919-2.

Heisenberg, W. *Die physikalischen Prinzipien der Quantentheorie*. Hirzel, Stuttgart, 5. aufl., unveränd. nachdr. edition, 2008. ISBN 978-3-7776-1616-2.

Mathur, V. S. and Singh, S. *Concepts in Quantum Mechanics*. Chapman and Hall/CRC, 1st edition, 2008. ISBN 978-0-429-14033-4. doi:10.1201/b17176.

Miller, D. A. B. *Quantum Mechanics for Scientists and Engineers*. Cambridge University Press, Cambridge ; New York, 2008. ISBN 978-0-521-89783-9.

Schwabl, F. *Advanced Quantum Mechanics*. Springer Berlin Heidelberg, Berlin, Heidelberg, 2008a. ISBN 978-3-540-85061-8 978-3-540-85062-5. doi:10.1007/978-3-540-85062-5.

Schwabl, F. *Quantenmechanik für Fortgeschrittene (QM II): mit 4 Tabellen und 104 Aufgaben ; [mit mehr als 100 Übungsaufgaben]*. Springer-Lehrbuch. Springer, Berlin Heidelberg, 5., erweiterte und aktualisierte auflage edition, 2008b. ISBN 978-3-540-85075-5.

Tachtadžjan, L. A. and Takhtajan, L. A. *Quantum Mechanics for Mathematicians*. Number 95 in Graduate Studies in Mathematics. American Mathematical Society, Providence, 2008. ISBN 978-0-8218-4630-8.

Amrein, W. O. *Hilbert Space Methods in Quantum Mechanics*. Fundamental Sciences Physics. EPFL Press [u.a.], Lausanne, 1. ed edition, 2009. ISBN 978-1-4200-6681-4 978-2-940222-35-3.

Fujita, S., Ito, K., and Godoy, S. *Quantum Theory of Conducting Matter: Superconductivity*. Springer, New York, NY, 2009. ISBN 978-0-387-88205-5 978-0-387-88211-6.

Greenberger, D. M., Hentschel, K., and Weinert, F., editors. *Compendium of Quantum Physics: Concepts, Experiments, History, and Philosophy*. Springer, Heidelberg, 2009. ISBN 978-3-540-70622-9.

Greiner, W. and Reinhardt, J. *Quantum Electrodynamics*. Springer, Berlin, fourth edition, 2009. ISBN 978-3-540-87560-4 978-3-540-87561-1.

Hund, V., Malvetti, M., and Pilkuhn, H. *Eine kleine Quantenphysik: Quantenmechanik - Relativistik - Quantenoptik*. Vieweg-Lehrbuch Physik. Springer, Berlin, [nachdr. der ausg.] 1997 edition, 2009. ISBN 978-3-540-41530-5 978-3-528-06924-7.

Mahan, G. D. *Quantum Mechanics in a Nutshell*. In a Nutshell. Princeton University Press, Princeton, 2009. ISBN 978-0-691-13713-1.

Zeidler, E. *Quantum Field Theory II: Quantum Electrodynamics*. Springer, Berlin Heidelberg, 2009. ISBN 978-3-540-85376-3. doi:10.1007/978-3-540-85377-0.

Blokhintsev, D. I. *Philosophy of Quantum Mechanics*. Springer, Place of publication not identified, 2010. ISBN 978-90-481-8335-7.

Bohm, A. *Quantum Mechanics: Foundations and Applications*. Texts and Monographs in Physics. Springer, New York, 3. ed., revised and enl., softcover print.; [repr. der ausg.] 2001 edition, 2010. ISBN 978-0-387-95330-4.

Desai, B. R. *Quantum Mechanics with Basic Field Theory*. Cambridge University Press, Cambridge, UK ; New York, 2010. ISBN 978-0-521-87760-2.

Dirac, P. A. M. *The Principles of Quantum Mechanics*. Number 27 in International Series of Monographs on Physics. Clarendon Press, Oxford University Press, Oxford, 4th (rev.), repr edition, 2010. ISBN 978-0-19-852011-5.

Huang, K. *Quantum Field Theory: From Operators to Path Integrals*. Physics Textbook. Wiley-VCH, Weinheim, 2., rev. and enlarged ed edition, 2010. ISBN 978-3-527-40846-7.

Kleinert, H. *Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets*. World Scientific, New Jersey, 5th ed., repr edition, 2010. ISBN 978-981-4273-56-5 978-981-4273-55-8.

Lieb, E. H. and Seiringer, R. *The Stability of Matter in Quantum Mechanics*. Cambridge University Press, Cambridge, UK ; New York, 2010. ISBN 978-0-521-19118-0.

Mandl, F. and Shaw, G. *Quantum Field Theory*. Wiley, Hoboken, N.J, second edition, 2010. ISBN 978-0-471-49683-0 978-0-471-49684-7.

Peleg, Y., Pnini, R., Zaarur, E., and Hecht, E. *Quantum Mechanics*. Schaum's Outlines. McGraw-Hill Companies, New York, second edition, 2010. ISBN 978-0-07-162358-2.

Rebhan, E. *Theoretische Physik: Relativistische Quantenmechanik, Quantenfeldtheorie und Elementarteilchentheorie*. Spektrum Akademischer Verl, Berlin Heidelberg, 2010. ISBN 978-3-8274-2602-4.

Zinn-Justin, J. *Path Integrals in Quantum Mechanics*. Oxford Graduate Texts. Oxford University Press, Oxford ; New York, pbk. ed edition, 2010. ISBN 978-0-19-856674-8 978-0-19-856675-5.

Ahn, D. and Park, S.-H. *Engineering Quantum Mechanics*. Wiley-IEEE Press, Hoboken, N.J, 2011. ISBN 978-0-470-10763-8.

Atkins, P. W. and Friedman, R. *Molecular Quantum Mechanics*. Oxford University Press, Oxford ; New York, fifth edition, 2011. ISBN 978-0-19-954142-3.

Blümel, R. *Advanced Quantum Mechanics: The Classical-Quantum Connection*. Jones and Bartlett Publishers, Sudbury, MA, 2011. ISBN 978-1-934015-52-0.

d'Emilio, E. and Picasso, L. E. *Problems in Quantum Mechanics*. UNITEXT. Springer Milan, Milano, 2011. ISBN 978-88-470-2305-5 978-88-470-2306-2. doi:10.1007/978-88-470-2306-2.

Dyson, F. J. *Advanced Quantum Mechanics*. World Scientific, Hackensack, N.J, 2011. ISBN 978-981-4383-40-0 978-981-4383-41-7.

Feynman, R. P. *The Feynman Lectures on Physics. Volume 3: Quantum Mechanics*. Basic Books, New York, new millennium edition, paperback [edition] edition, 2011. ISBN 978-0-465-02501-5 978-0-465-02417-9.

Grant, I. P. *Relativistic Quantum Theory of Atoms and Molecules: Theory and Computation*. Springer, New York ; London, 2011. ISBN 978-1-4419-2240-3.

Griffiths, D. J. *Introduction to Elementary Particles*. Physics Textbook. Wiley-VCH, Weinheim, 2., rev. ed., 5. reprint edition, 2011. ISBN 978-3-527-40601-2.

Milton, K. A. and Schwinger, J. *Electromagnetic Radiation: Variational Methods, Waveguides and Accelerators*. Springer, Berlin, 2011. ISBN 978-3-642-06724-2.

Zeidler, E. *Quantum Field Theory III: Gauge Theory*. Springer, Berlin Heidelberg, 2011. ISBN 978-3-642-22420-1. doi:10.1007/978-3-642-22421-8.

Zelevinsky, V. *Quantum Physics*. Wiley-VCH, Weinheim, 2011. ISBN 978-3-527-41057-6 978-3-527-40979-2 978-3-527-40984-6.

Alonso, M. and Finn, E. J. *Quantenphysik und statistische Physik*. Oldenbourg Verlag, München, 5., unveränderte auflage edition, 2012. ISBN 978-3-486-71340-4.

Beck, M. *Quantum Mechanics: Theory and Experiment*. Oxford University Press, New York, 2012. ISBN 978-0-19-979812-4.

Bes, D. R. *Quantum Mechanics: A Modern and Concise Introductory Course*. Graduate Texts in Physics. Springer, Berlin Heidelberg, 3rd edition, 2012. ISBN 978-3-642-42950-7 978-3-642-20555-2.

Brandt, S. and Dahmen, H. D. *The Picture Book of Quantum Mechanics*. Springer, New York, NY, 2012. ISBN 978-1-4614-3950-9 978-1-4614-3951-6 978-1-4939-3695-3.

Cini, M., Fucito, F., and Sbragaglia, M. *Solved Problems in Quantum and Statistical Mechanics*. UNITEXT. Springer Milan, Milano, 2012. ISBN 978-88-470-2314-7 978-88-470-2315-4. doi:10.1007/978-88-470-2315-4.

Dick, R. *Advanced Quantum Mechanics*. Graduate Texts in Physics. Springer New York, New York, NY, 2012. ISBN 978-1-4419-8076-2 978-1-4419-8077-9. doi:10.1007/978-1-4419-8077-9.

Dirac, P. A. M. *Lectures on Quantum Mechanics and Relativistic Field Theory*. Martino Publishing, Mansfield Centre, Connecticut, 2012. ISBN 978-1-61427-334-9.

Fröhlich, J., editor. *Quantum Theory from Small to Large Scales*. Oxford University Press, Oxford, 2012. ISBN 978-0-19-965249-5.

Fromhold, A. T. *Quantum Mechanics for Applied Physics and Engineering*. Dover Publications, 2012. ISBN 978-0-486-66741-6.

Gasiorowicz, S. *Quantenphysik*. Oldenbourg, München, 10., verb. aufl edition, 2012. ISBN 978-3-486-70844-8.

Kiefer, C. *Quantentheorie: eine Einführung*. Number 19035 in Fischer-Taschenbücher. Fischer Taschenbuch, Frankfurt am Main, akt. neuausg., 2. aufl edition, 2012. ISBN 978-3-596-19035-5.

Kuperberg, G. and Weaver, N. *A Von Neumann Algebra Approach to Quantum Metrics*. American Mathematical Society, Providence, 2012. ISBN 978-0-8218-5341-2 978-0-8218-8512-3.

McIntyre, D. H., Manogue, C. A., and Tate, J. *Quantum Mechanics: A Paradigms Approach*. Pearson, Boston, 2012. ISBN 978-0-321-76579-6.

Pahlavani, M. R., editor. *Theoretical Concepts of Quantum Mechanics*. InTech, 2012. ISBN 978-953-51-0088-1. doi: 10.5772/2075.

Reinhardt, H. *Quantenmechanik. 1: Pfadintegralformulierung und Operatorformalismus*. Oldenbourg, München, 2012. ISBN 978-3-486-71736-5 978-3-486-71516-3.

Saxon, D. S. *Elementary Quantum Mechanics*. Dover Publications, Inc, Mineola, NY, dover ed edition, 2012. ISBN 978-0-486-48596-6.

Schmüser, P. *Theoretische Physik für Studierende des Lehramts. 1: Quantenmechanik / Peter Schmüser*. Springer Spektrum, Berlin Heidelberg, 2012. ISBN 978-3-642-25396-6.

Sullivan, D. M. and Weaver, N. *Quantum Mechanics for Electrical Engineers*. Studies in Advanced Mathematics. IEEE Press, Hoboken, NJ, 2012. ISBN 978-0-470-87409-7.

Townsend, J. S. *A Modern Approach to Quantum Mechanics*. University Science Books, Sausalito, CA, second edition, 2012. ISBN 978-1-891389-78-8.

Aitchison, I. J. R. and Hey, A. J. *Gauge Theories in Particle Physics: A Practical Introduction, Volume 1: From Relativistic Quantum Mechanics to QED, Fourth Edition*. CRC Press, fourth edition, 2013. ISBN 978-0-429-18538-0. doi:10.1201/b13717.

Band, Y. B. and Avishai, Y. *Quantum Mechanics with Applications to Nanotechnology and Information Science*. Academic Press, Amsterdam ; New York, 1st edition, 2013. ISBN 978-0-444-53786-7.

Fayngold, M. and Fayngold, V. *Quantum Mechanics and Quantum Information: A Guide through the Quantum World*. Physics Textbook. Wiley-VCH, Weinheim, Germany, 2013. ISBN 978-3-527-40647-0.

Fayyazuddin and Riazuddin. *Quantum Mechanics*. World Scientific, Hackensack, New Jersey, second edition, 2013. ISBN 978-981-4412-90-2.

Galitskiĭ, V. M., Karnakov, B. M., and Kogan, V. I. *Exploring Quantum Mechanics: A Collection of 700+ Solved Problems for Students, Lecturers, and Researchers*. Oxford University Press, Oxford, 2013. ISBN 978-0-19-923271-0 978-0-19-923272-7.

Hall, B. C. *Quantum Theory for Mathematicians*. Number 267 in Graduate Texts in Mathematics. Springer, New York, 2013. ISBN 978-1-4614-7115-8. doi:10.1007/978-1-4614-7116-5.

Haroche, S. and Raimond, J.-M. *Exploring the Quantum: Atoms, Cavities, and Photons*. Oxford Graduate Texts. Oxford University Press, Oxford, first published in paperback edition, 2013. ISBN 978-0-19-968031-3 978-0-19-850914-1.

Khinchin, A. Y. *Mathematical Foundations of Quantum Statistics*. Dover Publications, 2013. ISBN 978-0-486-40025-9.

Mackey, G. W. *Mathematical Foundations of Quantum Mechanics*. Dover Publications, 2013. ISBN 978-1-306-36615-1 978-0-486-15447-3.

Magnasco, V. *Elementary Molecular Quantum Mechanics: Mathematical Methods and Applications*. Elsevier, Amsterdam, second edition, 2013. ISBN 978-0-444-62647-9.

Nazarov, Y. V. and Danon, J. *Advanced Quantum Mechanics: A Practical Guide*. Cambridge University Press, Cambridge New York, 2013. ISBN 978-0-521-76150-5.

Nolting, W. *Grundkurs theoretische Physik 5/1*. Springer-Lehrbuch. Springer Spektrum, Berlin Heidelberg, 8. aufl. edition, 2013. ISBN 978-3-642-25402-4.

Reinhardt, H. *Quantenmechanik 2: Pfadintegralformulierung und Operatorformalismus*. De Gruyter, 2013. ISBN 978-3-486-72032-7. doi:10.1524/9783486855883.

Sadovskii, M. V. *Quantum Field Theory*. Number 17 in De Gruyter Studies in Mathematical Physics. De Gruyter, Berlin Boston, 2013. ISBN 978-3-11-027035-8 978-3-11-027029-7.

Struppa, D. *Quantum Theory: A Two-Time Success Story*. Springer, New York, 1st edition, 2013. ISBN 978-88-470-5216-1. doi:10.1007/978-88-470-5217-8.

Weinberg, S. *The Quantum Theory of Fields II*. Cambridge University Press, Cambridge, 2013. ISBN 978-1-139-64417-4. doi:10.1017/CBO9781139644174.

Yariv, A. *An Introduction to Theory and Applications of Quantum Mechanics*. Dover Publications, Mineola, NY, 2013. ISBN 978-0-486-49986-4.

Auletta, G., Fortunato, M., and Parisi, G. *Quantum Mechanics*. Cambridge University Press, Cambridge, 2014. ISBN 978-1-107-66589-7.

Beard, D. B. *Quantum Mechanics*. Dover Publications, Mineola, NY, 2014. ISBN 978-0-486-77992-8.

Beard, D. B. and Beard, G. B. *Quantum Mechanics with Applications*. Dover Publications, Inc, Mineola, NY, dover edition edition, 2014. ISBN 978-0-486-77990-4.

Curtright, T., Fairlie, D., and Zachos, C. *A Concise Treatise on Quantum Mechanics in Phase Space*. World Scientific, New Jersey, 2014. ISBN 978-981-4520-43-0.

Emch, G. G. *Algebraic Methods in Statistical Mechanics and Quantum Field Theory*. Dover Publications, New York, 2014. ISBN 0-486-47209-4.

Gudder, S. P. *Stochastic Methods in Quantum Mechanics*. Dover Publications, New York, 2014. ISBN 978-0-486-44532-8.

Holstein, B. R. *Topics in Advanced Quantum Mechanics*. Dover Publications, Inc, Mineola, NY, 2014. ISBN 978-0-486-49985-7.

Lancaster, T. and Blundell, S. *Quantum Field Theory for the Gifted Amateur*. Oxford University Press, Oxford, 1st edition, 2014. ISBN 978-0-19-969933-9 978-0-19-969932-2.

Marlow, A. R. *Mathematical Foundations of Quantum Theory*. Elsevier Science, Saint Louis, 2014. ISBN 978-0-323-14118-5.

Rajasekar, S. and Velusamy, R. *Quantum Mechanics I: The Fundamentals*. CRC Press, 1st edition, 2014a. ISBN 978-0-429-19456-6. doi:10.1201/b17899.

Rajasekar, S. and Velusamy, R. *Quantum Mechanics II: Advanced Topics*. CRC Press, 1st edition, 2014b. ISBN 978-0-429-19448-1. doi:10.1201/b17827.

Schechter, M. *Operator Methods in Quantum Mechanics*. Dover Publications, 2014. ISBN 978-1-306-95769-4 978-0-486-15004-8.

Schwartz, M. D. *Quantum Field Theory and the Standard Model*. Cambridge University Press, New York, 2014. ISBN 978-1-107-03473-0.

Susskind, L. and Friedman, A. *Quantum Mechanics: The Theoretical Minimum*. Allen Lane, London, 2014. ISBN 978-0-241-00344-2.

Swanson, M. S. *Path Integrals and Quantum Processes*. Academic Press (Elsevier), 2014. ISBN 978-0-323-13816-1. doi: 10.1016/C2009-0-22242-2.

Teschl, G. *Mathematical Methods in Quantum Mechanics: With Applications to Schrödinger Operators*. Number volume 157 in Graduate Studies in Mathematics. American Mathematical Society, Providence, second edition, 2014. ISBN 978-1-4704-1704-8.

Toptygin, I. N. *Foundations of Classical and Quantum Electrodynamics*. Physics Textbook. Wiley-VCH, Weinheim, 2014. ISBN 978-3-527-41153-5.

Weinberg, S. *The Quantum Theory of Fields I*. Cambridge University Press, Cambridge, paperback ed., 10. print edition, 2014. ISBN 978-0-521-67053-1 978-0-521-55001-7 978-0-521-67056-2.

Wentzel, G. *Quantum Theory of Fields*. Dover Publications, Newburyport, 2014. ISBN 978-0-486-17449-5.

Weyl, H. *The Theory of Groups and Quantum Mechanics*. Dover Publications, 2014. ISBN 978-1-61427-580-0.

Wheeler, J. A. and Wojciech, H. Z. *Quantum Theory and Measurement*. Princeton Legacy Library. Princeton University Press, 2014. ISBN 978-0-691-61316-1.

Ballentine, L. E. *Quantum Mechanics: A Modern Development*. World Scientific, Hackensack, New Jersey, second edition, 2015. ISBN 978-981-4578-57-8 978-981-4578-58-5.

Bell, J. S. *Quantenmechanik: Sechs mögliche Welten und weitere Artikel*. Walter de Gruyter GmbH, Berlin ; Boston, 2., korrigierte auflage edition, 2015. ISBN 978-3-11-044790-3.

Binney, J. and Skinner, D. *The Physics of Quantum Mechanics*. Oxford University Press, Oxford, reprinted with corrections edition, 2015. ISBN 978-0-19-968856-2 978-0-19-968857-9.

Bongaarts, P. *Quantum Theory: A Mathematical Approach*. Springer, Cham Heidelberg New York Dordrecht London, 2015. ISBN 978-3-319-37602-8 978-3-319-09560-8. doi: 10.1007/978-3-319-09561-5.

David, F. *The Formalisms of Quantum Mechanics*, volume 893 of *Lecture Notes in Physics*. Springer International Publishing, Cham, 2015. ISBN 978-3-319-10538-3 978-3-319-10539-0. doi:10.1007/978-3-319-10539-0.

de la Peña, L., Cetto, A. M., and Valdés Hernández, A. *The Emerging Quantum: The Physics Behind Quantum Mechanics*. Springer International Publishing : Imprint: Springer, Cham, 1st edition, 2015. ISBN 978-3-319-07893-9. doi:10.1007/978-3-319-07893-9.

Dubbers, D. and Stöckmann, H.-J. *Quantum Physics: The Bottom-up Approach*. Graduate Texts in Physics. Springer, 2015. ISBN 978-3-642-42702-2.

Esposito, G., Marmo, G., Miele, G., and Sudarshan, E. C. G. *Advanced Concepts in Quantum Mechanics*. Cambridge University Press, Cambridge, United Kingdom, 2015. ISBN 978-1-107-07604-4.

Horwitz, L. P. *Relativistic Quantum Mechanics*. Number 180 in Fundamental Theories of Physics. Springer Netherlands Springer e-books Imprint: Springer, Dordrecht, 1st ed. 2015 edition, 2015. ISBN 978-94-017-7261-7.

Kharchenko, V. *Quantum Lie Theory: A Multilinear Approach*. Number 2150 in Lecture Notes in Mathematics. Springer International Publishing : Imprint: Springer, Cham, 1st ed. 2015 edition, 2015. ISBN 978-3-319-22704-7. doi:10.1007/978-3-319-22704-7.

Kim, T.-m. *Introductory Quantum Mechanics for Applied Nanotechnology*. Wiley-VCH, Weinheim, 2015. ISBN 978-3-527-41245-7.

Lüth, H. *Quantum Physics in the Nanoworld: Schrödinger's Cat and the Dwarfs*. Graduate Texts in Physics. Springer International Publishing, Cham, 2015. ISBN 978-3-319-14668-3 978-3-319-14669-0. doi:10.1007/978-3-319-14669-0.

Maiani, L. and Benhar, O. *Relativistic Quantum Mechanics: An Introduction to Relativistic Quantum Fields*. CRC Press, 1st edition, 2015. ISBN 978-0-429-16100-1. doi: 10.1201/b19021.

von Oppen, G. and Busch, M. *Bergmann-Schaefer kompakt. 3: Quantenphysik - atomare Teilchen und Festkörper*. De Gruyter, Berlin, 2015. ISBN 978-3-11-022671-3.

Powell, J. L. and Crasemann, B. *Quantum Mechanics*. Dover Publications, Inc, Mineola, NY, dover edition edition, 2015. ISBN 978-0-486-79459-4.

Rae, A. I. M. and Napolitano, J. *Quantum Mechanics*. CRC Press, sixth edition, 2015. ISBN 978-0-429-15734-9. doi: 10.1201/b19619.

Weinberg, S. *Lectures on Quantum Mechanics*. Cambridge University Press, 2015a. ISBN 978-1-107-11166-0.

Weinberg, S. *Quantenmechanik: eine Einführung des Nobelpreisträgers Steven Weinberg*. Always learning. Pearson, Hallbergmoos, 2015b. ISBN 978-3-86894-263-7.

Basdevant, J.-L. *Lectures on Quantum Mechanics: With Problems, Exercises and Their Solutions*. Graduate Texts in Physics. Springer International Publishing, Cham, 2016. ISBN 978-3-319-43478-0 978-3-319-43479-7. doi: 10.1007/978-3-319-43479-7.

Dell'Antonio, G. *Lectures on the Mathematics of Quantum Mechanics. 2: Selected Topics*. Number 2 in Atlantis Studies in Mathematical Physics. Atlantis Press, Paris Amsterdam, 2016. ISBN 978-94-6239-114-7 978-94-6239-115-4.

Dittrich, W. and Reuter, M. *Classical and Quantum Dynamics: From Classical Paths to Path Integrals*. Graduate Texts in Physics. Springer International Publishing, Cham, 2016. ISBN 978-3-319-21676-8 978-3-319-21677-5. doi:10.1007/978-3-319-21677-5.

Edmonds, A. R. *Angular Momentum in Quantum Mechanics*. Princeton Landmarks in Mathematics and Physics. De Gruyter (Princeton University Press), 2016. ISBN 978-1-4008-8418-6.

Finster, F., Kleiner, J., Röken, C., and Tolksdorf, J., editors. *Quantum Mathematical Physics*. Springer International Publishing, Cham, 2016. ISBN 978-3-319-26900-9 978-3-319-26902-3. doi:10.1007/978-3-319-26902-3.

Johansson, L.-G. *Interpreting Quantum Mechanics*. Routledge, 1st edition, 2016. ISBN 978-1-351-92642-3. doi: 10.4324/9781315251899.

Kleinert, H. *Particles and Quantum Fields*. World Scientific, New Jersey, 2016. ISBN 978-981-4740-89-0 978-981-4740-90-6.

Lax, P. D. and Phillips, R. S. *Scattering Theory*. Pure and Applied Mathematics (Academic Press). Academic Press (Elsevier), 2016. ISBN 978-1-4832-2363-6.

Manoukian, E. B. *Quantum Field Theory I: Foundations and Abelian and Non-Abelian Gauge Theories*. Graduate Texts in Physics. Springer International Publishing, Cham, 2016a. ISBN 978-3-319-30938-5 978-3-319-30939-2. doi: 10.1007/978-3-319-30939-2.

Manoukian, E. B. *Quantum Field Theory II: Introductions to Quantum Gravity, Supersymmetry and String Theory*. Graduate Texts in Physics. Springer International Publishing, Cham, 2016b. ISBN 978-3-319-33851-4 978-3-319-33852-1. doi:10.1007/978-3-319-33852-1.

Manousakis, E. *Practical Quantum Mechanics: Modern Tools and Applications*. Oxford Graduate Texts. Oxford University Press, Oxford, United Kingdom, 1st edition, 2016.

ISBN 978-0-19-874934-9.

Padmanabhan, T. *Quantum Field Theory*. Graduate Texts in Physics. Springer International Publishing, Cham, 2016. ISBN 978-3-319-28171-1 978-3-319-28173-5. doi: 10.1007/978-3-319-28173-5.

Anderson, E. *The Problem of Time*. Number 6001 in Fundamental Theories of Physics. Springer Berlin Heidelberg, New York, NY, 2017. ISBN 978-3-319-58846-9.

Arodz, H. and Hadasz, L. *Lectures on Classical and Quantum Theory of Fields*. Graduate Texts in Physics. Springer International Publishing, Cham, 2017. ISBN 978-3-319-55617-8 978-3-319-55619-2. doi:10.1007/978-3-319-55619-2.

Baulieu, L., Iliopoulos, J., and Sénéor, R. *From Classical to Quantum Fields*. Oxford University Press, Oxford, 1st edition, 2017. ISBN 978-0-19-878839-3 978-0-19-878840-9.

Deák, P. *Essential Quantum Mechanics for Electrical Engineers*. Wiley-VCH, Weinheim, Germany, 2017. ISBN 978-3-527-41355-3.

Ecker, G. *Teilchen, Felder, Quanten: von der Quantenmechanik zum Standardmodell der Teilchenphysik*. Springer Spektrum, Berlin, 2017. ISBN 978-3-662-54549-2. doi: 10.1007/978-3-662-54550-8.

Moretti, V. *Spectral Theory and Quantum Mechanics*, volume 110 of *UNITEXT*. Springer International Publishing, Cham, 2017. ISBN 978-3-319-70705-1 978-3-319-70706-8. doi:10.1007/978-3-319-70706-8.

Norsen, T. *Foundations of Quantum Mechanics*. Undergraduate Lecture Notes in Physics. Springer International Publishing, Cham, 2017. ISBN 978-3-319-65866-7 978-3-319-65867-4. doi:10.1007/978-3-319-65867-4.

Woit, P. *Quantum Theory, Groups and Representations*. Springer Berlin Heidelberg, New York, NY, 2017. ISBN 978-3-319-64610-7.

Berman, P. R. *Introductory Quantum Mechanics*. UNITEXT for Physics. Springer International Publishing, Cham, 2018. ISBN 978-3-319-68596-0 978-3-319-68598-4. doi: 10.1007/978-3-319-68598-4.

Bethe, H. A. and Jackiw, R. *Intermediate Quantum Mechanics*. CRC Press, 3rd (1986) edition, 2018. ISBN 978-0-429-49364-5. doi:10.1201/9780429493645.

Bolivar, N. and Abellán, G. *Quantum Mechanics: Axiomatic Theory with Modern Applications*. Apple Academic Press, Oakville, ON; Waretown, NJ : Apple Academic Press, [2018], 1st edition, 2018. ISBN 978-1-351-16628-7. doi: 10.1201/9781351166287.

Chaichian, M. and Demichev, A. *Path Integrals in Physics: Volume I Stochastic Processes and Quantum Mechanics*. CRC Press, 2018a. ISBN 978-1-315-27335-8. doi: 10.1201/9781315273358.

Chaichian, M. and Demichev, A. *Path Integrals in Physics: Volume II Quantum Field Theory, Statistical Physics and Other Modern Applications*. CRC Press, 2018b. ISBN 978-1-315-27460-7. doi:10.1201/9781315274607.

Davies, P. C. and Betts, D. S. *Quantum Mechanics*. Routledge, 2nd (1st 1984) edition, 2018. ISBN 978-0-203-74148-1. doi:10.1201/9780203741481.

Demtröder, W. *Atoms, Molecules and Photons: An Introduction to Atomic-, Molecular- and Quantum Physics*. Graduate Texts in Physics. Springer Berlin Heidelberg, Berlin Heidelberg, 2018. ISBN 978-3-662-55521-7 978-3-662-55523-1. doi:10.1007/978-3-662-55523-1.

d'Espagnat, B. *Conceptual Foundations of Quantum Mechanics*. CRC Press, second edition, 2018. ISBN 978-0-429-50144-9. doi:10.1201/9780429501449.

Dürr, D. and Lazarovici, D. *Verständliche Quantenmechanik: drei mögliche Weltbilder der Quantenphysik*. Springer Spektrum, Berlin, 2018. ISBN 978-3-662-55887-4. doi: 10.1007/978-3-662-55888-1.

Fließbach, T. *Lehrbuch zur Theoretischen Physik. 3: Quantenmechanik / Torsten Fließbach*. Lehrbuch. Springer Spektrum, Berlin [Heidelberg], 6. auflage edition, 2018. ISBN 978-3-662-58030-1. doi:10.1007/978-3-662-58031-8.

Gottfried, K. *Quantum Mechanics: Fundamentals*. CRC Press, 1st (1966) edition, 2018. ISBN 978-0-429-49322-5. doi:10.4324/9780429493225.

Griffiths, D. J. and Schroeter, D. F. *Introduction to Quantum Mechanics*. Cambridge University Press, Cambridge ; New York, 3rd edition, 2018. ISBN 978-1-107-18963-8.

House, J. E. *Fundamentals of Quantum Mechanics*. Academic Press (Elsevier), London, San Diego Cambridge Oxford, third edition edition, 2018. ISBN 978-0-12-809255-2 978-0-12-809242-2.

Killingbeck, J. P., editor. *Microcomputer Quantum Mechanics*. CRC Press, second edition, 2018. ISBN 978-1-351-07458-2. doi:10.1201/9781351074582.

Kim, I.-G. *Annotations to Quantum Statistical Mechanics*. Jenny Stanford Publishing, 1st edition, 2018. ISBN 978-1-315-19659-6. doi:10.1201/9781315196596.

Kramers, H. A. and ter Haar, D. *Quantum Mechanics*. Dover Publications, Inc, Mineola, NY, dover edition edition, 2018. ISBN 978-0-486-82473-4.

Manners, J. *Quantum Physics*. CRC Press, 1st edition, 2018. ISBN 978-1-4822-6883-6. doi:10.1201/9781315274621.

Scheck, F. *Classical Field Theory*. Graduate Texts in Physics. Springer Berlin Heidelberg, Berlin Heidelberg, 2018. ISBN 978-3-662-55577-4 978-3-662-55579-8. doi:10.1007/978-3-662-55579-8.

Sherwin, C. W. *Introduction to Quantum Mechanics*. New Academic Science, London, 2018. ISBN 978-1-78183-108-3.

Stefanovich, E. *Quantum Electrodynamics*. De Gruyter Studies in Mathematical Physics. De Gruyter, 2018a. ISBN 978-3-11-049320-7. doi:10.1515/9783110493207.

Stefanovich, E. *Quantum Mechanics*. De Gruyter Studies in Mathematical Physics. De Gruyter, 2018b. ISBN 978-3-11-049213-2. doi:10.1515/9783110492132.

Stefanovich, E. *Relativistic Quantum Dynamics*. De Gruyter Studies in Mathematical Physics. De Gruyter, 2018c. ISBN 978-3-11-049322-1. doi:10.1515/9783110493221.

Trachanas, S., Antonoyiannakis, M., and Tsetseris, L. *An Introduction to Quantum Physics: A First Course for Physicists, Chemists, Materials Scientists, and Engineers*. Wiley-VCH, Weinheim, 2018a. ISBN 978-3-527-41247-1.

Trachanas, S., Antonoyiannakis, M., and Tsetseris, L. *An Introduction to Quantum Physics: A First Course for Physicists, Chemists, Materials Scientists, and Engineers*. Wiley-VCH, Weinheim, 2018b. ISBN 978-3-527-41247-1.

von Neumann, J., Beyer, R. T., and Wheeler, N. A. *Mathematical Foundations of Quantum Mechanics*. Princeton University Press, Princeton, new edition edition, 2018. ISBN 978-0-691-17856-1 978-0-691-17857-8.

Chen, G., Church, D. A., Englert, B.-G., Henkel, C., Rohwedder, B., Scully, M. O., and Zubairy, M. S. *Quantum Computing Devices: Principles, Designs, and Analysis*. CRC PRESS, 2019. ISBN 978-0-367-39037-2.

Cohen-Tannoudji, C., Diu, B., and Laloë, F. *Quantenmechanik. Band 2*. De Gruyter Studium. De Gruyter, Berlin Boston, 5. auflage edition, 2019a. ISBN 978-3-11-063876-9 978-3-11-062609-4.

Cohen-Tannoudji, C., Diu, B., and Laloë, F. *Quantenmechanik. Band 1.* De Gruyter Studium. De Gruyter, Berlin Boston, 5. auflage edition, 2019b. ISBN 978-3-11-063873-8 978-3-11-062600-1.

Coleman, S. and Chen, B. G.-g. *Quantum Field Theory: Lectures of Sidney Coleman.* World Scientific, New Jersey, 2019. ISBN 978-981-4632-53-9 978-981-4635-50-9.

Duncan, A. and Janssen, M. *Constructing Quantum Mechanics.* Oxford University Press, Oxford, United Kingdom ; New York, NY, first edition edition, 2019. ISBN 978-0-19-884547-8.

Faddeev, L. D., Khalfin, L. A., and Komarov, I. V. *V. A. Fock- Selected Works: Quantum Mechanics and Quantum Field Theory.* CRC Press, Boca Raton London New York, 2019. ISBN 978-0-367-39430-1.

Filk, T. *Quantenmechanik (nicht nur) für Lehramtsstudierende.* Lehrbuch. Springer Spektrum, Berlin [Heidelberg], 2019. ISBN 978-3-662-59735-4.

Gelis, F. *Quantum Field Theory: From Basics to Modern Topics.* Cambridge University Press, Cambridge, UK ; New York, NY, 2019. ISBN 978-1-108-48090-1.

Landau, L. D. and Lifschitz, E. M. *Quantenmechanik*, volume 3 of *Lehrbuch der theoretischen Physik.* Europa-Lehrmittel, unveränderter nachdruck der 9. auflage 1986 edition, 2019. ISBN 978-3-8085-5636-8.

Landsman, K. *Foundations of Quantum Theory: From Classical Concepts to Operator Algebras.* Springer, 2019. ISBN 978-3-319-51777-3.

Moretti, V. *Fundamental Mathematical Structures of Quantum Theory.* Springer Nature, 2019. ISBN 978-3-030-18346-2. doi:10.1007/978-3-030-18346-2.

Peskin, M. E. and Schroeder, D. V. *An Introduction to Quantum Field Theory.* The Advanced Book Program. CRC Press, Taylor & Francis Group, Boca Raton, 2019. ISBN 978-0-367-32056-0 978-0-201-50397-5.

Rudra, N. *A Course in Quantum Mechanics.* CRC Press, 1st edition, 2019. ISBN 978-0-429-32576-2. doi: 10.1201/9780429325762.

Sadovskii, M. V. *Quantum Field Theory.* Texts and Monographs in Theoretical Physics. De Gruyter, Berlin ; Boston, 2nd edition edition, 2019. ISBN 978-3-11-064515-6.

Schilcher, K. *Quantenelektrodynamik Kompakt.* De Gruyter Studium. De Gruyter, Berlin ; Boston, 2019. ISBN 978-3-11-048858-6.

Schuch, D. *Quantum Theory from a Nonlinear Perspective: Riccati Equations in Fundamental Physics.* Springer, 2019. ISBN 978-3-319-65594-9. doi:10.1007/978-3-319-65594-9.

Siddiqui, S. *Quantum Mechanics: A Simplified Approach.* Routledge (Taylor & Francis), 2019. ISBN 978-1-315-22315-5 978-1-315-22812-9 978-1-351-84003-3 978-1-351-84004-0 978-1-351-84002-6.

Sternberg, S. *A Mathematical Companion to Quantum Mechanics.* Dover Publications, Inc, Mineola, NY, 2019. ISBN 978-0-486-82689-9.

Wan, K. K. *Quantum Mechanics: A Fundamental Approach.* Jenny Stanford Publishing, 2019. ISBN 978-1-351-33336-8 978-1-351-33335-1 978-1-351-33334-4 978-0-203-70241-3.

Wick, M. *Quantenmechanik mit Concept-Maps: mit Struktur und Übersicht besser verstehen und lernen.* Springer Spektrum, Berlin, 2019. ISBN 978-3-662-59423-0. doi: 10.1007/978-3-662-59424-7.

Wilcox, W. *Quantum Principles and Particles.* CRC Press, Taylor & Francis Group, Boca Raton, second edition edition, 2019. ISBN 978-1-138-09037-8.

Blinder, S. M. *Introduction to Quantum Mechanics.* Elsevier Science, Cambridge, second edition, 2020. ISBN 978-0-12-106051-0.

Cohen-Tannoudji, C., Diu, B., and Laloë, F. *Quantenmechanik: fermionen, bosonen, photonen, korrelationen und verschränkung.* De Gruyter, Boston, 1. edition, 2020. ISBN 978-3-11-062064-1.

De Bianchi, S. and Kiefer, C. *One Hundred Years of Gauge Theory: Past, Present and Future Perspectives*, volume 199 of *Fundamental Theories of Physics.* Springer, Cham, 2020. ISBN 978-3-030-51196-8.

Dürr, D. and Lazarovici, D. *Understanding Quantum Mechanics: The World According to Modern Quantum Foundations.* Springer Nature, Cham, 2020. ISBN 978-3-030-40067-5. doi:10.1007/978-3-030-40068-2.

Ferry, D. *Quantum Mechanics.* CRC Press, 3rd edition, 2020. ISBN 978-1-00-031649-0. doi:10.1201/9781003031949.

Hanhart, C. *kurz & knapp: Quantenmechanik: das Wichtigste auf unter 150 Seiten.* Lehrbuch. Springer Spektrum, Berlin [Heidelberg], 2020. ISBN 978-3-662-60701-5. doi: 10.1007/978-3-662-60702-2.

Honerkamp, J. *Über die Merkwürdigkeiten der Quantenmechanik.* essentials. Springer Spektrum, Wiesbaden [Heidelberg], 2020. ISBN 978-3-658-31879-6. doi:10.1007/978-3-658-31879-6.

Kenyon, I. R. *Quantum 20/20: Fundamentals, Entanglement, Gauge Fields, Condensates and Topology.* Oxford University Press, Oxford, United Kingdom, first edition edition, 2020. ISBN 978-0-19-880835-0 978-0-19-880836-7.

Kuypers, F. *Quantenmechanik: Lehr- und Arbeitsbuch.* Wiley-VCH, Weinheim, 2020. ISBN 978-3-527-41380-5.

Landau, L. D. and Lifschitz, E. M. *Quantenelektrodynamik*, volume 4 of *Lehrbuch der theoretischen Physik.* Europa-Lehrmittel, unveränderter nachdruck der 7., ergänzten auflage 1991 edition, 2020. ISBN 978-3-8085-5632-0.

Ludyk, G. *Quantenmechanik nur mit Matrizen.* Springer Berlin Heidelberg, Berlin Heidelberg, 2020. ISBN 978-3-662-60881-4 978-3-662-60882-1. doi:10.1007/978-3-662-60882-1.

Messiah, A. *Quantum Mechanics (Vol. I and II).* Dover Publications, Inc, Garden City, New York, 2020. ISBN 978-0-486-78455-7.

Münster, G. and Weaver, N. *Quantentheorie.* Studies in advanced mathematics. De Gruyter, Boca Raton, 2020. ISBN 978-3-11-047996-6. doi:10.1515/9783110479966.

Peebles, P. J. E. *Quantum Mechanics.* Princeton University Press, 2020. ISBN 978-0-691-20982-1.

Rogalski, M. S. and Palmer, S. B. *Quantum Physics.* CRC Press, 1st edition, 2020. ISBN 978-1-00-307826-5. doi: 10.1201/9781003078265.

Sontz, S. B. *An Introductory Path to Quantum Theory: Using Mathematics to Understand the Ideas of Physics.* Springer, Cham, 2020. ISBN 978-3-030-40766-7. doi:10.1007/978-3-030-40767-4.

Susskind, L. and Friedman, A. *Quantenmechanik: Das Theoretische Minimum.* Number 2 in Sachbuch. Springer, Berlin [Heidelberg], 2020. ISBN 978-3-662-60329-1. doi: 10.1007/978-3-662-60330-7.

Tasaki, H. *Physics and Mathematics of Quantum Many-Body Systems.* Graduate Texts in Physics. Springer International Publishing, Cham, 2020. ISBN 978-3-030-41264-7 978-3-030-41265-4. doi:10.1007/978-3-030-41265-4.

Wan, K. K. *Quantum Mechanics: Problems and Solutions.* Jenny Stanford Publishing, 1st edition, 2020. ISBN 978-0-

429-29647-5. doi:10.1201/9780429296475.

Zubairy, M. S. *Quantum Mechanics for Beginners: With Applications to Quantum Communication and Quantum Computing*. Oxford University Press, Oxford ; New York, NY, first edition edition, 2020. ISBN 978-0-19-885422-7 978-0-19-885423-4.

Berera, A. *Quantum Mechanics*. Cambridge University Press, New York, 2021. ISBN 978-1-108-42333-5.

Capozziello, S. and Boskoff, W.-G. *A Mathematical Journey to Quantum Mechanics*. UNITEXT for Physics. Springer International Publishing, Cham, 2021. ISBN 978-3-030-86097-4 978-3-030-86098-1. doi:10.1007/978-3-030-86098-1.

Deck, R. T. *Development of Quantum Theory from Physical Principles: Quantum Mechanics without Waves*. Dover Publications, Inc, Garden City, New York, 2021. ISBN 978-0-486-84593-7.

Fai, L. C. *Feynman Path Integrals in Quantum Mechanics and Statistical Physics*. CRC Press, Taylor & Francis Group, 2021. ISBN 978-0-367-69785-3.

Fradkin, E. *Quantum Field Theory: An Integrated Approach*. Princeton University Press, Princeton, 2021. ISBN 978-0-691-14908-0.

Helliwell, T. M. and Sahakian, V. V. *Modern Classical Mechanics*. Cambridge University Press, Cambridge, UK ; New York, NY, 2021. ISBN 978-1-108-83497-1.

Helrich, C. S. *The Quantum Theory - Origins and Ideas: A Historical Primer for Physics Students*. History of Physics. Springer, Cham, 2021. ISBN 978-3-030-79267-1.

Ismael, J. Quantum Mechanics. In E. N. Zalta, editor, *The Stanford Encyclopedia of Philosophy*. Metaphysics Research Lab, Stanford University, fall 2021 edition, 2021.

Kronz, F. and Lupher, T. Quantum Theory and Mathematical Rigor. In E. N. Zalta, editor, *The Stanford Encyclopedia of Philosophy*. Metaphysics Research Lab, Stanford University, winter 2021 edition, 2021.

Naber, G. L. *Quantum Mechanics: An Introduction to the Physical Background and Mathematical Structure*. De Gruyter, Boston, 2021. ISBN 978-3-11-075161-1.

Nagasawa, M. *Markov Processes and Quantum Theory*. Number 109 in Monographs in Mathematics. Birkhäuser, Cham, 2021. ISBN 978-3-030-62687-7. doi:10.1007/978303062884.

Parthasarathy, H. *Quantum Mechanics: For Scientists and Engineers*. CRC Press, London, 1st edition, 2021. ISBN 978-1-00-322143-2. doi:10.1201/9781003221432.

Polkinghorne, J. C. *Quantentheorie: Eine Einführung*. Number Nr. 18861 in Reclams Universal-Bibliothek Reclam Sachbuch. Reclam, Ditzingen, 8. auflage edition, 2021. ISBN 978-3-15-018861-3.

Sakurai, J. J. and Napolitano, J. *Modern Quantum Mechanics*. Cambridge University Press, Cambridge, 3rd edition, 2021. ISBN 978-1-108-47322-4.

Sharma, A. C. *A Textbook on Modern Quantum Mechanics: A Textbook on Modern Quantum Mechanics*. CRC Press, Boca Raton, 1st edition, 2021. ISBN 978-1-00-315445-7. doi:10.1201/9781003154457.

Sinha, T. *An Introduction to Quantum Mechanics: From Facts to Formalism*. Chapman and Hall/CRC, Boca Raton, 1st edition, 2021. ISBN 978-1-00-309033-5. doi:10.1201/9781003090335.

Wipf, A. *Statistical Approach to Quantum Field Theory: An Introduction*. Number volume 992 in Lecture Notes in Physics. Springer, Cham, second edition, 2021. ISBN 978-3-030-83262-9.

Wolschin, G. *Relativistische Quantenmechanik*. Lehrbuch. Springer Spektrum, Berlin [Heidelberg], 2. auflage edition, 2021. ISBN 978-3-662-64386-0. doi:10.1007/978-3-662-64387-7.

Zettili, N. *Quantum Mechanics: Concepts and Applications*. John Wiley & Sons, 2021. ISBN 978-1-118-30789-2.

Zinn-Justin, J. *Quantum Field Theory and Critical Phenomena*. International Monographs on Physics. Oxford University Press, New York, fifth edition, 2021. ISBN 978-0-19-883462-5.

Denk, R. *Mathematische Grundlagen der Quantenmechanik*. Springer Spektrum, 2022. ISBN 978-3-662-65553-5.

Donoghue, J. F. and Sorbo, L. *A Prelude to Quantum Field Theory*. Princeton University Press, 2022. ISBN 978-0-691-22350-6 978-0-691-22349-0 978-0-691-22348-3.

Fai, L. C. *Quantum Mechanics: Non-Relativistic and Relativistic Theory*. CRC Press, Boca Raton, 1st edition, 2022. ISBN 978-1-00-327307-3. doi:10.1201/9781003273073.

Firme, C. L. *Quantum Mechanics: Detailed Historical, Mathematical and Computational Approaches*. CRC Press, Boca Raton, 1st edition, 2022. ISBN 978-1-00-305058-2. doi:10.1201/9781003050582.

Göbel, H. *Quantenmechanik: Eine Einführung in die Welt der Wellen und Wahrscheinlichkeiten*. De Gruyter, 2022. ISBN 978-3-11-065936-8. doi:10.1515/9783110659368.

Janyška, J. and Modugno, M. *An Introduction to Covariant Quantum Mechanics*, volume 205 of *Fundamental Theories of Physics*. Springer International Publishing, Cham, 2022. ISBN 978-3-030-89588-4 978-3-030-89589-1. doi:10.1007/978-3-030-89589-1.

Kiefer, C. and De Bianchi, S., editors. *From Quantum to Classical: Essays in Honour of H.-Dieter Zeh*, volume 204 of *Fundamental Theories of Physics*. Springer International Publishing, Cham, 2022. ISBN 978-3-030-88780-3 978-3-030-88781-0. doi:10.1007/978-3-030-88781-0.

Korsch, H.-J. *Mathematik der Quantenmechanik: Grundlagen, Beispiele, Aufgaben, Lösungen*. Hanser, München, 3., aktualisierte auflage edition, 2022. ISBN 978-3-446-47468-0.

Pfeiler, W. and Siebinger, K. *Experimentalphysik. Band 5: Quanten, Atome, Kerne, Teilchen*. De Gruyter Studium. De Gruyter, Berlin, 2. auflage edition, 2022. ISBN 978-3-11-067564-1.

Reed, B. C. *Quantum Mechanics: An Enhanced Primer*. Springer International Publishing, Cham, 2022. ISBN 978-3-031-14019-8 978-3-031-14020-4. doi:10.1007/978-3-031-14020-4.

Steinhauser, M. O. *Quantenmechanik für Naturwissenschaftler*. Springer, 2022. ISBN 978-3-662-62609-2. doi:10.1007/978-3-662-52788-7.

Xiang, T. *Building Blocks of Quantum Mechanics: Theory and Applications*. CRC Press, Boca Raton, first edition, 2022. ISBN 978-1-00-317488-2. doi:10.1201/9781003174882.

Zwiebach, B. *Mastering Quantum Mechanics: Essentials, Theory, and Applications*. The MIT Press, Cambridge, MA, 2022. ISBN 978-0-262-04613-8.