

# 100 Years of Quantum Mechanics Literature – A new baseline

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## Abstract

A qualitative survey on the Quantum Mechanics (QM) literature space was performed. The survey presents published works since 1921. Several criteria were introduced to refine a literature list with focus on QM textbooks only. The list contains 398 items as of 2023-Mar-15. 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.

#### A. Footnotes

Please note that this article works with footnotes. The references are exclusively reserved for the resulting QM textbooks.

### 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<sup>1</sup>. 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

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<sup>1</sup> <https://www.zotero.org>

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. This means no popular-science (“quantum healing”), etc., but the real physical teachings of the QM. 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 but with very limited search-depth. Further limitations include books on Nuclear or Atomic (Models, Spectroscopy, Reactors), history etc. The expertise level of the textbooks range from undergraduate to graduate level. A list of objects categories (ignored, limited, avoided) is provided 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 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 from 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<sup>2</sup> or else), but

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<sup>2</sup> Optical Character Recognition

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.<sup>3</sup> 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.<sup>4</sup>

## 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><sup>5</sup>

- “Quantenmechanik” → Over 4,322 hits

<https://www.amazon.de><sup>6</sup>

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<sup>3</sup> See <https://mirtitles.org> for more details.

<sup>4</sup> Some books will be missing! The author apologizes if, through ignorance, other valuable (textbook) sources have been omitted.

<sup>5</sup> Buchhandel is linked to VLB, which lists books since over 45 years.

<sup>6</sup> A large number of ‘sponsored’ results; same list of results across various categories, etc.

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

<https://www.amazon.com><sup>6</sup>

- “Quantum mechanics” → Over 4,000 hits

<https://books.google.com><sup>7</sup>

- “Quantenmechanik” → 227,000 hits
- “Quantum mechanics” → 5,800,000 hits

<https://isbndb.com><sup>8</sup>

- “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

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<sup>7</sup> Other search-engines (new or old, good or bad) were ignored.

<sup>8</sup> Website wasn't loading “more results”, however many books were added from here.

<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](#)<sup>9</sup>

- 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  $\pm 1$ , 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

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<sup>9</sup> List by Physicist John Baez & Co., UC Riverside, CA, USA.



efforts.<sup>10</sup> Primarily, core-attributes (Author, Title, Year, ISBN or DOI, Publisher, Edition) are part of the collection.

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<sup>11</sup>), 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 1921. 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 discoveries beyond the typical search-engine results.

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<sup>10</sup> It was tried to use the print-names, as they appear on covers.

<sup>11</sup> For example <https://www.doabooks.org/en> or <https://www.mdpi.com/books>, etc.

## A. Final words

It is worth looking at QM literature from many perspectives. Finally, as a hint, some older books have been digitized and archived at the INTERNET ARCHIVE, e.g., the classic books of TOMONAGA.

## IX. REFERENCES

The references in the following list include the full list of titles, partially with *launchable* URLs. This is in conformance with the RevTeX template and macros.

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