

Old Chemistry Books

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In the Raleigh-Durham-Chapel Hill area there are about a dozen college, university, and general public libraries, with a total of more than four and one quarter million volumes. A bibliography of the old chemistry books in these libraries has been prepared. In this work, which was done over a two year period ending in the spring of 1967, all books classified 540-548 (Dewey Decimal) or QD (Library of Congress) and published in 1860 or before were recorded. Journals and reprints of books were not listed.

The college and university libraries in the area, the North Carolina State Library, and the public libraries in Raleigh and Durham were included. All of the large libraries and some of the smaller ones were searched personally, and the others were reached by letter. The author wishes to take this opportunity to thank the members of the various library staffs for their help.

A total of 159 old chemistry books was found, including different editions of the same title. All of these are in the libraries of Duke University, the University of North Carolina at Chapel Hill, and North Carolina State University, with one duplicate (Sir Humphry Davy's Collected Works) in the North Carolina State Library.

Table I gives a breakdown of the publication dates, showing the number of books published in each decade from 1781 to 1860.

TABLE I

Number of books published, by
decade

Years	Number of books
1851-60	48
1841-50	38
1831-40	16
1821-30	17
1811-20	13
1801-10	13
1791-1800	4
1781-90	3
before 1781	7 (1 each in 1777, 1753, 1741, 1735, 1722, 1679, and 1634)

Total: 159

Table II shows the libraries in which these old chemistry books are located, with the code used to identify each.

TABLE II

Libraries and their identification
codes

Library	Code
North Carolina State Library	Nc
Duke University	NcD
N. C. State University	NcRS
University of North Carolina- Chapel Hill	NcU

A similar bibliography of old chemistry books in the Nashville, Tennessee libraries has been published (1).

Following is the list of books, with the codes designating the libraries in which they were found.

- Accum, Frederick. *System of Theoretical and Practical Chemistry* . . . 2nd American ed. Philadelphia, Kimber & Conrad, 1814. 2v. NcU.
- Aiken, Arthur & C. R. Aikin. *A Dictionary of Chemistry and Mineralogy*. London, John and Arthur Arch, 1807. 2v. NcU.
- Bergman, Torbern Olof. *An essay on the usefulness of chemistry, and its application to the various occasions of life*. London, J. Murray, 1783, NcRS.
- Berthollet, Claude Lovis. *An Essay on chemical statics*. London, J. Mawman, 1804. 2v. NcU.
- Berzelius, Johan Jacob. *Rapport Annuel sur les progrès de la chimie*. Paris, Fortin, Masson & cie. 3v. 1841, 1842, 1843. NcU.
- _____. *The use of the blowpipe in chemical analysis in the examination of minerals*. London, Baldwin, Cradock & Joy, 1822. NcU.
- Black, Joseph. *Lectures on Elements of Chemistry* . . . First American ed. from the last London ed. Philadelphia, Mathew Carey, 1807. 3v. NcU.
- Boerhaave, Herman. *Elements of Chemistry* . . . London, J. & J. Pemberton, 1735. 2v. NcU.
- _____. *A New Method of Chemistry* . . . London, Longmans, 1741, NcD.
- _____. *A New Method of Chemistry* . . . Third ed. London, T. & T. Longmans, 1753. 2v. NcU.
- Booth, James C. *The Encyclopedia of Chemistry*. Philadelphia, Henry C. Baird, 1850. NcU.
- Bowman, John E. *Introduction to practical chemistry*. Philadelphia, Lea & Blanchard, 1849. NcU.
- Brande, William Thomas. *A Manual of Chemistry*. First American ed. from second London ed. New York, George Long, 1821. 3v. in 1. NcU.
- _____. *A Manual of Chemistry*. 6th ed. London, John W. Parker, 1848. 3v. in 2. NcU.
- _____. *The subject matter of a course of ten lectures on some of the arts connected with organic chemistry* . . . London, Longman, Brown, Green, and Longmans, 1854. NcU.
- Catalogue des livres de fonds de Fortin, Masson and cie*. Paris, Paul Renouard, 1844. NcU.
- Chaptal de Chanteloup, Jean Antoine Claude. *Elements of Chemistry*. 3rd American ed. Boston, J. T. Buckingham, for Thomas and Andrews, 1806. 3v. in 1. NcU.
- _____. *Elements of Chemistry*. 4th American ed. Philadelphia, Benjamin & Thomas Kite, 1807. v. 1-2, (v.3 missing) NcU.
- Comstock, John Lee. *Elements of Chemistry*. Hartford, D. F. Robinson & Co., 1831. NcRS.
- _____. *Elements of Chemistry*. New York, Pratt, 49th ed., 1844. NcD; New York, Pratt, Woodford, Farmer & Brace, 1854. NcU; New York, Pratt, Woodford, & Co., 1854. NcD.
- Cooke, Josiah Parsons. *Chemical problems and reactions*. Cambridge, John Bartlett, 1857. NcU.
- _____. *Elements of chemical physics*. Boston, Little, Brown & Co., 1860. NcU.
- Cooper, Thomas. *The Emporium of Arts and Sciences*. Philadelphia, Kimber & Richardson, 1813. v. 1. NcU.
- _____. *Introductory Lecture*. Carlisle, Pa., Printed by A. London, 1812. NcD.
- Cutbush, James. *The Philosophy of experimental chemistry*. Philadelphia, Isaac Peirce, 1813, 2v. NcU.
- Dalton, John. *A new system of chemical philosophy*. London, Bickerstaff, 1808-27, 2v. in 3. NcRS; London, G. Wilson, 1808-27, 2v. in 3. NcD; 2nd ed., London, J. Weale, 1842, 2v. in 3. NcD.
- Daniell, John Frederic. *An Introduction to study of Chemistry*. London, John W. Parker, 1839. NcU.

- Davy, Sir Humphry. *Collected Works*. London, Smith, Elder and Co., 1839-1840. 9v. Nc, NcD.
- _____. *Elémens de philosophie chimique*. Paris, J. E. G. Du Four, 1813. 2v. NcU.
- _____. *Researches, chemical and philosophical, chiefly concerning nitrous oxide*. London, J. Johnson, 1800. NcU.
- A *Dictionary of Chemistry*. 2nd ed. London, T. Cadell & P. Elmsly, 1777. 3v. (This a translation of a French dictionary, attributed to Macquer.) NcU.
- Digby, John, tr. *A philosophical account of nature in general and of the generation of the three principles of nature, vi 2 mercury, sulphur, and salt, out of the four elements*. London, John Hooke, 1722. NcU.
- Draper, John William. *A Textbook on Chemistry for the Use of Schools and Colleges*. 6th. ed. New York, Harper & Bros. 1848. NcD, NcU; New ed. 1853, NcD.
- Dumas, Jean B. and J. B. Boussingault. *Chemical and physiological balance of organic nature*. New York, Saxton and Miles. From the 3d. ed. 1844. NcU.
- Ewell, Thomas. *Plain Discourses on the Laws or Properties of Matter*. New York, Printed for Brisban and Brannan, 1806. NcD.
- An Explanatory Dictionary*. ("By a Practical Chemist"). London, Thomas Boys. 1824. NcU.
- Fabre, Pierre Jean. *Hercules Piochymicus . . . Tolosae Tectosagum*, Apud Petrum Bosc. 1634. NcD.
- Faraday, Michael. *Chemical manipulation*. London, W. Phillips, 1827. NcU.
- _____. *Six lectures on the non metallic elements . . .* London, Longman, Brown, Green, and Longmans, 1853. NcU.
- Foster, W. *Foster's First Principles of Chemistry*. New York, Harper & Bros. 1855. NcD.
- Fourcroy, Antoine Francois de. *General System of Chemical Knowledge*. London, Cadell and Davies, 1804. v. 2-10. NcU.
- Fownes, George. *Elementary Chemistry, Theoretical and Practical*. New American ed., Philadelphia, Blanchard, 1854. NcD.
- Francis, George William. *Chemical Experiments*. Philadelphia, Daniels & Smith, 1850. NcU; 8th ed., London, J. Allen, 1855. NcU.
- Fresenius, Carl Remigius. *Elementary instruction in chemical analysis*. New York, D. Appleton & Co., 1844. NcU.
- _____. *A system of instruction in qualitative chemical analysis*. London, Churchill, 1855. NcU.
- _____. *A system of instruction of quantitative chemical analysis*. London, Churchill, 1854. NcU.
- Fyfe, Andrew. *Elements of Chemistry*. Boston, Richardson and Lord, 1827. NcU.
- Gay-Lussac, Joseph Louis. *Cours de Chimie*. Brussels, H. Tarlier, 1829. 2v. NcU.
- Glover, Robert Mortimer. *Manual of Elementary Chemistry*. London, William Tegg & Co., 1855. NcU.
- Gmelin, Johann Friedrich. *Geschichte der chemie seit dem wiederaufleben der wissenschaften bis an das ende des achtzehnden jahrhunderts*. Göttingen, Johann Georg Rosenbusch, 1797-99, 3v. in 4. NcU.
- Gmelin, Leopold. *Handbook of Chemistry*. London, Harrison & Son, 1848-56. 10v. NcU. London, printed for the Cavendish Society, 1848-59, 13v., NcRS.
- Gorham, John. *Inaugural Address*. Boston, Printed by Wells and Lilly, 1817. NcD.
- Graham, Thomas. *Elements of Chemistry*. Philadelphia, Lea & Blanchard, 1843. NcU; 2nd American ed., 1853, 2v. NcU.
- _____. *Elements of inorganic chemistry . . .* 2nd. American ed., Philadelphia, Blanchard & Lea, 1858. NcU.
- Gray, Alonzo. *Elements of Chemistry*. Twelfth ed., New York, Newman, 1846. NcD.

the Center is open daily, Monday through Friday, as well as Monday through Thursday nights (except in the summer).

Dr. Donald Ely was on campus August 6-7 as consultant to the Chancellor's *ad hoc* committee on campus-wide media services.

NEW NORTH CAROLINA BOOKS

(Continued)

FRANKLIN and MARY WICKWIRE. *Cornwallis, The American Adventure*. Boston: Houghton Mifflin Company, 1970. 486pp. illus. \$10.00.

Carefully researched, fully documented, and attractively printed, bound, and illustrated, this book is also surprisingly readable. It is, in fact, for anyone moderately interested in American history, one of those legendary books that is "hard to put down." Cornwallis was of concern to Revolutionary North Carolinians (as well as to the Tories, of course) from the time of the Battle of Moore's Creek Bridge in 1776—to which he arrived too late—until he departed the state after the Battle of Guilford Courthouse and an unhappy trek to Wilmington in 1781. He was not in the state all of the time between those dates, of course, but his whereabouts was known to our leaders, nevertheless. This book lays ample stress on his presence in this state, but aside from that the subject is one of current interest with the bicentennial of the Revolution almost upon us. This is a book that might well be on the waiting list in many Tar Heel libraries, once word of it gets around.

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F. ROY JOHNSON. *The Nat Turner Story*. Murfreesboro: Johnson Publishing Company, 1970. 240pp. illus. \$7.50.

This is the story of Nat Turner, the black hero or villain who led some half a hundred slaves on a bloody rampage through lower Southampton County, Virginia, in late August, 1831. Repercussions were felt in much of northeastern North Carolina, particularly in Hertford and Northampton counties just across the line below Southampton County. The fear of slave uprisings in North Carolina was real for quite a long time. In addition to being a carefully researched and factual account of this period of history, this book also records numerous traditions of the times. A system of keyed references will refer the reader to the source of each of the traditional stories.

OLD CHEMISTRY BOOKS

(Continued)

Gregory, William. *Elementary treatise on chemistry*. Edinburgh, Adam & Charles Black, 1855. NcU.

_____. *Handbook of organic chemistry* . . . 4th American from the 4th London ed. New York, A. S. Barnes & Co., 1857. NcD, NcRS.

_____. *Outlines of Chemistry* . . . 1st American from the 2nd London ed. New York, Barnes, 1852. NcD.

Griffin, John Joseph. *Chemical recreations*. 8th ed. Glasgow, Richard Griffin & Co., 1838. NcU.

- _____. *A system of crystallography*. Glasgow, Griffin, 1841. NcRS.
- Griffiths, Thomas. *Chemistry of the four seasons*. Philadelphia, Lea & Blanchard, 1846. NcU.
- Hare, Robert. *Compendium of course of chemical instruction in medical department of University of Pennsylvania*. 3d ed. Philadelphia, J. G. Auner, 1836. NcU.
- _____. *Minutes of course of chemical instruction in medical department of University of Pennsylvania*. Philadelphia, William Brown, 1822. NcU; Philadelphia, Clark & Raser, 1824-25, 3v. in 1, NcU.
- Henry, William. *Elements of experimental chemistry*. 2nd American ed. Philadelphia, Robert Desilver, 1822. 3v. NcU; 11th ed., 1831, 2v., NcU.
- Higgins, William. *Experiments and Observations on the Atomic Theory and Electrical Phenomena*. Dublin, printed by Graisberry and Campbell, 1814. NcD.
- Johnston, James F. W. *Chemistry of common life*. 9th ed. New York, D. Appleton & Co., 1858. 2v. NcU.
- Johnston, John. *Elements of Chemistry*. Philadelphia, Thomas, Cowperthwait & Co., 1852. NcU.
- _____. *A Manual of chemistry on the basis of Dr. Turner's Elements of chemistry* . . . Philadelphia, Thomas, Cowperthwait & Co., 1842. NcU; 1844, NcU; Philadelphia, C. Desilver, 1856, NcRS.
- Jones, Thomas P. *New conversations on chemistry* . . . Philadelphia, J. Grigg, 1836. NcRS.
- Kane. *Elements of chemistry*. London ed. Dublin, Hodges & Smith, 1841. NcU. An American ed., New York, Harper & Bros., 1842, NcU.
- Lamy, Bernard. *Traitez de Mechanique de l'equilibre des Solides et des Liqueurs* . . . Paris, A. Prolard, 1679. NcD.
- Laurent, Auguste. *Chemical method* . . . London, The Cavendish Society, Harrison & Sons, 1855. NcU.
- _____. *Méthode de chimie*. Paris, Mallet-Bachelier, 1854. NcU.
- Lavoisier, Antoine Laurent. *Elements of chemistry*. 5th ed. New York, Evert Duyckinck, 1806. 2v. in 1. NcU.
- Liebig, Justus von. *Handbook of organic analysis*. London, Walton & Maberly, 1853. NcRS.
- _____. *Liebig's Complete Works on Chemistry*. Philadelphia, T. B. Peterson, 1850. NcD.
- Low, David. *An Inquiry into the nature of the simple bodies of chemistry*. 3rd ed., Edinburgh, Adam and Charles Black, 1856. NcU.
- Marcet, Mrs. Jane (Haldimand). *Conversations on chemistry*. Hartford, Cooke, 1831. NcRS; 14th American from last London ed., 1833, NcD.
- Mitchell, Thomas D. *Elements of chemical philosophy, on the basis of Reid* . . . Cincinnati, Carey & Fairbank, 1832. NcU.
- Morfit, Campbell. *Chemical and Pharmaceutical Manipulations*. Philadelphia, Lindsay & Blakiston, 1849. NcU.
- Murray, John. *Elements of chemistry*. 4th ed., Edinburgh, Francis Pillans, 1817. 2v. NcU.
- _____. *A system of chemistry*. 4th ed., Edinburgh, Francis Pillans, 1819. 4v. NcU.
- Muspratt, Sheridan. *Chemistry, theoretical, practical and analytical*. London, William MacKenzie, 1860. 2v. NcU.
- Naumann, Carl Fredrich. *Anfangsgründe der krystallographie* . . . Leipzig, Arnoldische Buchhandlung, 1854. NcU.
- Nicholson, William. *A Dictionary of Chemistry* . . . London, G. G. and J. Robinson, 1795. NcD.
- Noad, H. M. *Chemical analysis, qualitative and quantitative*. Philadelphia, Lindsay & Blakiston, 1849. NcRS.
- Orfila, P. M. *Practical Chemistry*. Philadelphia, Thomas Dobson & Son, 1818.

- Paris, John Ayrton. *The Elements of medical chemistry*. New York, Collins & Hannay, 1825. NcU.
- Parkes, Samuel. *Chemical Essays*. London, Baldwin, Cradock & Joy, 1815. v. 1-4; v. 5 missing. NcU.
- Parkinson, James. *The Chemical Pocket-book*. 3d ed., London, Printed by C. Whittingham for H. D. Symonds (etc.), 1803. NcD.
- Parnell, Edward Andrew. *Elements of chemical analysis* . . . new ed., London, Taylor & Walton, 1845. NcU.
- Pelouze, Théophile Jules. *Notions générales de chimie*. Paris, Victor Masson, 1853. NcU.
- Pelouze, Théophile Jules and Edmond Fremy. *General notions of chemistry* . . . Philadelphia, Lippincott, Grambo & Co., 1854. NcU.
- . *Traité de chimie generale*, 2nd ed., Paris, Victor Masson, v. 1, v. 3-6. 1854. NcU; 1855. NcU.
- Phelps, Mrs. Almira (Hart) Lincoln. *Chemistry for Beginners*. New York, Huntington, 1842. NcD; New York, Huntington & Savage, 1848. NcD.
- . *Chemistry for Schools, Families and Private Students*. New York, Huntington & Savage, 1846. NcD; 1848 (c1846) NcD; 1850 (c1846) NcU.
- Plattner, Karl Friedrich. *The use of the blowpipe*. London, Taylor, Walton & Maberly, 1850. NcU.
- . *The use of the blowpipe in the qualitative and quantitative examination of minerals, ores* . . . London, Maberly, 1850. NcU; 3d ed., London, John Churchill, 1854. NcRS.
- Priestly, Joseph. *Experiments and observations on different kinds of air and other branches of natural philosophy*. Birmingham, Thos. Pearson, 1790. 3v. NcU.
- Prout, William. *Chemistry, meteorology, and the function of digestion* . . . Philadelphia, Carey, Lea & Blanchard, 1834. NcU.
- Regnault, Henri Victor. *Cours elementaire de chimie*. 4th ed. Paris, Victor Masson, 1853. 4v. NcU.
- . *Elements of chemistry for the use of colleges, academies, and schools*. Philadelphia, Parrish, 1852. 2v. NcRS; 2nd ed., Philadelphia, Clark & Hesser, 1853, 2v. NcU.
- Renwick, James. *First principles of chemistry, being a familiar introduction to the study of that science*. New York, Harper, 1840. NcU.
- Robin, Charles. *Traité de Chimie Anatomique* . . . Paris, Bailliéne, 1853. NcD.
- Rose, Heinrich. *The Chemical tables for the calculation of quantitative analysis*. Boston, Charles C. Little and James Brown, 1850. NcU.
- . *A Manual of analytical chemistry*. London, Thomas Tegg, 1831. NcU.
- . *A Practical treatise of chemical analysis* . . . London, William Tegg, 1848-49. 2v. NcU.
- Schmieder, Karl C. *Geschichte der alchemie*. Halle, Verlag der Buchhandlung des Waisenhauses, 1832. NcU.
- Silliman, Benjamin. *Elements of chemistry*. New Haven, Hezekiah Howe, 1830. 2v. NcU.
- . *First Principles of Chemistry*. Philadelphia, H. C. Peck & T. Bliss, 1850. NcD; 43rd ed., 1858, NcD.
- Smith, Daniel B. *The Principles of chemistry*. 2nd ed. Philadelphia, Uriah Hunt, 1842. NcU.
- Stöckhardt, Julius Adolph. *The Principles of Chemistry* . . . Translated from the 5th German ed., London, H. G. Bohn, 1852. NcD; 1859, NcU; Boston, Phillips, Sampson & Co., 1855. NcU.
- Thénard, L. J. *An Essay on chemical analysis*. London, W. Phillips, 1819. NcU.
- Thomson, Thomas. *An attempt to establish first principles of chemistry by experiment*. London, Baldwin, Cradock, & Joy, 1825. 2v. NcU.

- _____. *Elements of Chemistry*. Philadelphia, J. & A. Y. Humphreys, 1810. NcD.
- _____. *The history of chemistry*. London, Henry Colburn and Richard Bentley, 1830-31. 2v. NcD, NcU.
- _____. *A System of chemistry*. 4th ed. Edinburgh, Bell & Bradfute, 1810. 5v. NcU; 6th ed., London, Baldwin, Cradock & Joy, 1820, 4v., NcU.
- _____. *System of Chemistry of inorganic bodies . . .* London, Baldwin & Cradock, 1831. 2v. NcU.
- Turner, Edward. *Elements of Chemistry*. First Am. from the first London ed. Philadelphia. John Grigg. 1828. NcU; 1830, NcD; 5th American from the 5th London ed., Philadelphia, Desilver, Thomas & Co., 1835. NcU; 7th ed., Philadelphia, Thomas, Cowperthwait & Co., 1846, NcU, NcRS.
- Ure, Andrew. *A Dictionary of Chemistry*. 1st American ed. Philadelphia, Robert Desilver, 1821. 2v. NcU; 2nd ed., London, printed for T. Tegg (etc.), 1824. NcD.
- Watson, Richard. *Chemical Essays*. 5th ed., London, T. Evans, 1788-1789. 5v. NcD; 6th ed., 1793-, v. 1-3, 5 NcU.
- Wells, David A. *Well's Principles and Applications of Chemistry . . .* New York, Ivison, Blakeman, Taylor and Co., 1858. NcD.
- Will, Heinrich. *Outlines of chemical analysis . . .* Boston, James Munroe & Co., 1855. NcU, NcRS, NcD.
- Williams, Charles Greville. *A Handbook of Chemical Manipulation*. London, John van Voorst, 1857. NcU, NcD.
- Wöhler, Friedrich. *The Analytical Chemist's Assistant . . .* Philadelphia, H. C. Baird, 1852. NcD.
- _____. *Handbook of inorganic analysis*. London, Walton & Maberly, 1854. NcU.
- Youmans, Edward L. *Chemical Atlas . . .* New York, D. Appleton & Co., 1857 (c1854) NcD; 1855, NcU.
- _____. *A Class Book of Chemistry*. New York, D. Appleton & Co., 1854. NcU.

LITERATURE CITED

1. DeLoach, Will S., and William Cumming. *Jour. Tenn. Acad. Sci.* 37: 104-106. 1962