

Books, manuscripts and documents dating before 1901 in the library collections of the Institute and Faculty of Actuaries

The following is an index in alphabetical order of principal author or title of printed books, manuscripts and documents that date from ca.1252 to 1900 in the libraries of the Institute and Faculty of Actuaries in London and in Edinburgh. It covers items originally published before 1901 so some later published facsimiles and modern reprints of early texts are also included.

The actuarial profession's special library collections are of items which relate to the origins, creation and development of actuarial science. They encompass themes of early insurance and pensions, demography (particularly mortality patterns of populations), commercial arithmetic (application of compound interest in accumulating funds) and statistics and probability theory leading to calculations of life expectancy and the business of offering life assurance and pension schemes based on 'actuarial' mathematics. Most texts are in English but there are significant items for actuarial science from France, Germany and Holland. The collections are relevant to social history too as they demonstrate a growing understanding of finance in eighteenth- and nineteenth-century society, as wider social groups moved to protect their wealth from enterprise for their dependants and future family generations. Ideas on viable and sustainable funding had also been applied to developing state forms of social insurance. The collections hold much evidence from insurance societies of the work of 'actuaries' who emerged from the late eighteenth century, forming a first professional body as the Institute of Actuaries in 1848. The list includes the Archive of the Equitable Life Assurance Society, acquired by the Institute of Actuaries in 2006, with key historical manuscripts by Thomas Bayes, James Dodson, Richard Price and William Morgan.

The Institute and Faculty of Actuaries library adds relevant items to its collections each year and this list will be updated periodically to include new acquisitions.

Bibliographic entries and grouping under one author vary in detail and consistency. This is owing to how pamphlets have been collated for use at the libraries and to the cataloguing style and decisions of librarians over time. There are 'bookmarks' in this Adobe Portable Document Format (PDF) for users to jump down the alphabet of listed authors' surnames or corporate names. Or <Control + F> can be used to search for a name/keyword in the list. This remains an interim tool to allow researchers to identify items the libraries hold.

Those wishing to view items at the Institute and Faculty of Actuaries Libraries should first contact the librarian at the IFoA London Library to arrange a visit, citing the 'RKN' number of items of interest from the list. For Faculty historic texts, you may be directed to IFoA Library, Edinburgh, which holds the Faculty collection.

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Institute and Faculty of Actuaries Library, April 2020

We advise users to increase zoom or text size to read this list on screen.

Abbe, Cleveland (1871). *Historical note on the method of least squares*. [pamphlet]. 1871. - 6 pages. [RKN: 71251]
Extract from the American Journal of Science and Arts, vol 1 June 1871

Abbott, J (1841). *Tithe commutation tables, for ascertaining the amount of rent charge payable for the year 1841, according to the average prices of wheat, barley and oats, for the seven years ending Christmas, 1840, as declared in the London Gazette*. [pamphlet]. - Pontefract: 1841. [RKN: 40844]

Abercrombie, W (1870). *Calendar applicable to all future time. Interest table at 1%*. [book]. - Paisley: 1870. [RKN: 4351]

Aberdeen Fire and Life Assurance Company (1826). *Contract of copartnery of the Aberdeen Fire and Life Assurance Company 1825*. [corporate document]. - Aberdeen: Printed by D Chalmers and Co, 1826. - 38 pages. [RKN: 71495]

Aberdeen Mutual Assurance and Friendly Society (1832). *Constitution and laws*. [corporate document]. - Aberdeen: 1832. [RKN: 40833]

About, Edmond; Reboul, E (1865). *L'assurance*. [pamphlet]. - Saint-Germain: 1865. [RKN: 40623]

About, Edmond (1866). *L'assurance*. - 2nd ed. [pamphlet]. - Paris: 1866. [RKN: 4767]

Académie Royale des Sciences (1766;1760). *Histoire de l'Académie Royale des Sciences. Année M D.CCLX.: Avec les Mémoires de Mathématique & de Physique pour la même Année, tirés des Registres de cette Académie*. [journal]. - Paris: Imprimerie Royale, 1766;1760. - 1 vols. - [v], 212; 476 pages. [RKN: 43217]
This printing includes of the Daniel Bernoulli paper includes his 'Introduction made long after the Mémoire, being of date 16 April 1765'

An Accountant (1829). *Principles of life annuities and assurances*. [book]. - Edinburgh: 1829. [RKN: 4914]

An Accountant (1838). *Principles of life annuities and assurances, practically illustrated*. [pamphlet]. - Edinburgh: Thomas Clark, Law Bookseller, 1838. [RKN: 62663]
See also RKN 4914 for another copy

Ackland, Thomas Gans; Hardy, George Francis (1889). *Graduated exercises and examples for the use of students of the Institute of Actuaries textbook*. [book]. 1889. [RKN: 4249]

Ackland, Thomas Gans (1900). *Some elementary notes on mortality tables, their construction and use: read before the Birmingham Insurance Institute, 16th February 1900*. [pamphlet]. - Birmingham: E C Osborne and Son, 1900. - 20 pages. [RKN: 70002]

Acland, John; Price, Richard (1786;2011 reprint). *A Plan for rendering the Poor independent on public contributions; founded on the basis of the Friendly Societies, commonly called Clubs: To which is added, A Letter from Dr Price, containing his sentiments and calculations on the subject*. [pamphlet]. - Exeter; London: Printed and sold by R Thorn (Exeter); by Messrs Rivington and T Cadell (London), 1786;2011 reprint. - vi, 59, [2] pages. [RKN: 20112]
'By the Rev. John Acland' - t.p. -- Library also holds facsimile copy produced by Gale Ecco (Eighteenth Century Collections Online, Andover) with cover title as above but amended: 'A Plan...; founded on clubs. Also, a letter from Dr Price... on the subject'

Active Life Assurance Loan, Endowment and Reversionary Interest Society (n.d.). [Prospectus]. [commercial pamphlet]. n.d.. [RKN: 41194]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Acts relating to assurance in the reign of Queen Victoria 1837-1867. [legislation]. 1837;1838;1840;1842;1847;1849;1852;1859;1861;1864;1867. [RKN: 8306]

Actuarial Commission on Friendly Societies (1876). *Reports from the commission appointed under the Friendly Societies Act of 1875, together with a copy of the first and second, and of the second part of the third, of those reports*. [book]. 1876. [RKN: 6005]

Actuarial reports on pension and widows' funds 1759-1910. [pamphlets collection (bound)]. 1759-1910. [RKN: 9513]

Actuarial Society of America (1880). *History of the foundation of the Actuarial Society of America*. [book]. - New York NY (USA): 1880. - 51 pages. [RKN: 152]

Actuarial Society of Edinburgh *Transactions*. [journal]. [RKN: 362]

Actuarial Society of Edinburgh (1859 -1870). *Publications of the Actuarial Society of Edinburgh: First series, vol 1*. [pamphlets collection (bound)]. - Edinburgh: 1859 -1870. [RKN: 62329]
Presented to the library by W Rae Macdonald, 21 February 1913. Handwritten title page and list of contents. -- See also RKNs 62328, 40824, 70654, 62330

Actuarial Society of Edinburgh (1859-1873). *Actuarial Society papers 1859-1873*. [pamphlets collection (bound)]. - Edinburgh: 1859-1873. [RKN: 62328]
Papers bound in random order, with Faculty material at the front (not listed). Last paper is not mentioned as being an address to the Actuarial Society. -- See also RKNs 62329, 70654, 40824, 62330

Actuarial Society of Edinburgh (1859-1873). *Actuarial Society's papers 1859-1875*. [pamphlets collection (bound)]. - Edinburgh: 1859-1873. [RKN: 62330]

Papers bound in a different order to RKN 62328. -- Handwritten contents list -- "The profession of an actuary" is cut from a newspaper and glued in. -- Book belonged to Archibald Hewat and is dated 1876

Actuarial Society of Edinburgh (1863-1896). *Actuarial Society [of Edinburgh]: presidential addresses*. [pamphlets collection (bound)]. 1863-1896. [RKN: 70654]

See also RKNs 62328-30

Actuarial Society of Edinburgh (1868). *Laws instituted 3rd February 1859*. [corporate document]. - Edinburgh: 1868. [RKN: 40824]

See also RKNs 62328, 62329 & 62330

Actuarial Society of Edinburgh; Insurance and Actuarial Society of Glasgow (1874). *Transactions of Edinburgh and Glasgow societies*. [journal]. - Edinburgh: Actuarial Society of Edinburgh, 1874. - 1 vols. [RKN: 45465]

Actuaries Club (1895). *Annals of the Actuaries Club*. [book]. Actuaries Club, 1895. - 28 pages. [RKN: 212]

[Actuary] (1869). *Life assurance companies: their financial condition discussed, with reference to impending legislation, in a letter addressed to W E Gladstone, by an actuary*. [pamphlet]. - London: 1869. [RKN: 40201]

An Actuary (c1825). *The errors of actuaries, as applicable to the tables of friendly societies*. [pamphlet]. c1825. [RKN: 62671]

An Actuary (c1832). *Rules and tables for the use of friendly societies in every part of the United Kingdom, with notes, observations, and instructions*. [pamphlet]. c1832. - 32 pages. [RKN: 62672]

Spine reads: Pamphlets on Friendly Society and Savings Banks

An Actuary (c1832). *Instructions for the establishment and improvement of friendly societies*. [pamphlet]. c1832. - 16 pages. [RKN: 62673]

Adams, John (1787). *The mathematician's companion, or a table of logarithms from 1 to 10,860* [book]. - London: 1787. [RKN: 1391]

Adan, H F G (1871). *Notice sur l'histoire de assurances sur la vie*. [pamphlet]. - Brussels: 1871. [RKN: 40424]

Adan, H F G (1874). *Les caisses de veuves et orphelins et la nécessité de leur reform*. [pamphlet]. 1874. [RKN: 40422]

Adan, H F G (1879). *De la présomption de faute en matière de responsabilité civile des chefs d'exploitation industrielle*. [pamphlet]. - Brussels: 1879. [RKN: 40420]

Adan, H F G (1880). *Etude sur la nature du contract d'assurance sur la vie*. - 2nd ed. [pamphlet]. - Brussels: 1880. [RKN: 40421]

Faculty copy dated 1876 (1st edition?)

Adan, H F G (1887). *Les polices tontinières ou polices d'accumulation des compagnies américaines et leurs promesses*. [pamphlet]. - Brussels: 1887. [RKN: 40423]

Adan, H F G (1887). *Die Tontinen-Versicherung oder die Policen mit Gewinn-Ansammlung der amerikanischen Lebens-Versicherungs Gesellschaften und deren Versprechungen*. [pamphlet]. 1887. [RKN: 40837]

Adan, H-F-G (1889;1870;1883). *Life and accident insurance*. [pamphlet]. - Bruxelles: P Weissenbruch, 1889;1870;1883. [RKN: 9819]

Address by the manager of the Scottish Widows' Fund, and Life Assurance Society instituted January 2, 1815: containing an account of the origin, constitution, and progress of the society.. [corporate document]. - Edinburgh: J Moir, 1830. - 43 pages. [RKN: 71559]

Bound in a volume reading 'The Scottish Widows' Fund' on spine.

Adler, Marcus N (1892). *The health laws of the Bible and their influence upon the life condition of the Jews*. [article offprint]. 1892. - 11 pages. [RKN: 71207]

Reprint from the Imperial and Asiatic Quarterly Review, January 1892

Advertisements of assurance offices [pamphlet]. [RKN: 62645]

Agnew, John Vans (1826). *Some important questions in Scots entail law, briefly considered: to which are added reports of the decisions of the House of Lords, 31st July 1822, in the appeals Vans Agnew against Stewart and others, and Vans Agnew against the Earl of Stair and others*. [pamphlet]. - Edinburgh: 1826. - 96 pages. [RKN: 70749]

Agricultural and General Life Insurance Company (n.d.). [Prospectus]. [commercial pamphlet]. n.d.. [RKN: 41195]

Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Airy, George Biddle (1879). *On the algebraical and numerical theory of errors of observations*. - 3rd ed. [book]. - London: 1879. [RKN: 1716]

Albert Life Assurance Company; McCalmont, Hugh (Baron Cairns) (1872). *First arbitration award and papers*. [pamphlets collection (bound)]. - London: 1872. [RKN: 8149]

Albert Life Assurance Company; McCalmont, Hugh (Baron Cairns) (1875;1873;1875). *First, second and third and final arbitration awards*. [corporate document]. - London: 1875;1873;1875. [RKN: 8150]
Bound in one volume. Awards made 1872 (1st), 1873 (2nd) and 1875 (3rd)

Albert Life Assurance Company; Cairns (Lord) (1875). *Third and final arbitration award*. [corporate document]. - London: 1875. [RKN: 8151]

Albion Fire and Life Insurance Company (1837). [Prospectus]. [commercial pamphlet]. 1837. [RKN: 41196]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Albion Fire and Life Insurance Company (1844). [Prospectus]. [commercial pamphlet]. 1844. [RKN: 41197]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Aldcroft, W H (1900). *Characteristics of the tables of mortality*. [pamphlet]. - Glasgow: Insurance Institute of Manchester. printed by James Hedderwick & Sons, 1900. - 34, [2] pages. [RKN: 11011]
A paper read before the members of the Insurance Institute of Manchester on 20th March, 1900

Alexander, James (1864). *A five farthing penny: a new and simple system of account and reckoning for the million: [Read before the Royal Society of Edinburgh, 21st March 1864]*. [pamphlet]. - Edinburgh: Andrew Elliot, 1864. - 32 pages. [RKN: 70971]

Alexandra Palace and Muswell Hill Estate (c1886). *The Alexandra Palace and Muswell Hill Estate Tontine, to terminate on the 30th of June, 1886*. [commercial pamphlet]. - London: c1886. - [2] pages. [RKN: 43738]
'This being a "Trust", subscribers incur no liability' -- 'Certificates pass to and entitle the bearer: 1. To participation in the proceeds of sale of the property if the representative life upon which the Tontine privilege depends shall be living on the 30th June 1886; 2. To the receipt from a life assurance of the sum of 20s in respect of each guinea paid upon any certificate, if the representative life shall die before the said 30th of June, 1886; 3. To admissions to the Palace and Park; 4. To participation in Art Union distributions proposed to be hereafter established'

Alfred Home and Foreign Life Assurance and Mutual Annuity Association (n.d.). [Prospectus]. [commercial pamphlet]. n.d.. [RKN: 41198]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Alison, Alexander (1852). *Universal free trade*. - 3rd ed. [pamphlet]. - London: 1852. [RKN: 41142]

Alison, Sir Archibald (1840). *The principles of population, and their connection with human happiness*. [book]. - Edinburgh: William Blackwood, 1840. - 2 vols. - 2 v. (xix, 572; viii, 514 p.) pages. [RKN: 9082]

Alison, W P; Arnott, N (1840). *Observations on the generation of fever*. [pamphlet]. - London: 1840. [RKN: 40800]

Allen, J A (1869). *Medical examinations for life insurance*. - Rev ed. [book]. - Chicago IL (USA): 1869. [RKN: 4968]
Faculty holds revised edition (1872)

Allen, Joseph (1877). *An inquiry concerning all the life insurance offices (British and foreign) having agencies in the United Kingdom: With a table prepared from the parliamentary returns, shewing in which of the offices policyholders may with certainty depend upon receiving the largest return for their money*. - 3rd ed. [pamphlet]. - London: Smart & Allen, 1877. - 25 pages. [RKN: 71094]

Allester, D W S (1846). *A table of simple interest*. [pamphlet]. - Edinburgh: 1846. [RKN: 40739]

Alliance British and Foreign Life and Fire Assurance Company (n.d.). [Prospectus]. [commercial pamphlet]. n.d.. [RKN: 41199]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Allison, Edward D (1826). *Observations on the expediency of instituting a friendly association of the medical profession throughout Scotland, for insuring a provision during sickness and old age, widows' annuities, endowments to children etc*. [pamphlet]. - Edinburgh: Adam Black, 1826. - 36 pages. [RKN: 70680]

Altenburger, Julius (1900). *Theorie des Policen-Ruckkaufes in der Lebensversicherung..* [pamphlet]. - Wien (Vienna): 1900. [RKN: 40179]
Collected papers: Julius Altenburger - Miscellaneous papers.

Altenburger, Julius (1900;1905). *Miscellaneous papers*. [pamphlets collection (bound)]. 1900;1905. [RKN: 3405]

American Academy of Political and Social Science (1898). *The economic relation of life insurance to society and state: Report of the meeting held on December 17th 1897, under the auspices of the American Academy of Political and Social Science*. [pamphlet]. - Philadelphia PA (USA): American Academy of Political and Social Science, 1898. - 48 pages. [RKN: 71137]

The American life assurance magazine and journal of actuaries. [journal]. 1862. - 192 pages. [RKN: 70032]

American National Life Trust Co. (1874-1875). *Application for appointment of a trustee. Arguments in probate court*. [book]. - New Haven CT (USA): 1874-1875. [RKN: 8159]

Amicable Society ([1845]). *The charters and by-laws of the Corporation of the Amicable Society for a perpetual assurance office.* [corporate document]. - London: Printed by Samuel Bentley, [1845]. - 160 pages. [RKN: 71252]

Amicable Society for a Perpetual Assurance Office (1762). *Terms, Methods and Advantages of insuring Lives in the Office of the Amicable Society for a Perpetual Assurance, kept in Serjeant's Inn, Fleet Street.* [commercial pamphlet]. - London: Amicable Society, 1762. - [1] pages. [RKN: 43192]

Large prospectus notice of the Amicable Society, established 1706, still offering life assurance (not on actuarial lines) to those aged 12 to 45, the first enterprise to do so. This prospectus is in the year the Society for Equitable Assurances was established, whose life assurance policies had premiums calculated actuarially from mortality experience.

Amicable Society for a Perpetual Assurance Office (1790). *Charters and bye-laws, with resolutions of 1770 and 1781.* [corporate document]. 1790. [RKN: 8129]

Amicable Society for a Perpetual Assurance Office; Pensam, John (1807). *A short account of the Corporation of the Amicable Society for a Perpetual Assurance Office. Serjeant's Inn, Fleet Street, London, Instituted by Charter of Queen Anne, anno 1706. With the Terms and Methods of becoming Members thereof.* [corporate document]. - London: Printed by W Phillips, 1807. - 3, [1] pages. [RKN: 43171]

'Corporation of the Amicable Society (for Insurance on Life): Abstract of the Charters and By-Laws. With the Terms and Methods of becoming Members' - title printed on page fold. -- Together with the Abstract are fifteen engraved receipts for quarterly contributions to the Society by a "Contributor to the Joint Stock" ('Rev. Robert Thorp', policyholder for his own life), dated 1791 and 1794

Amicable Society for a Perpetual Assurance Office; Galloway, Thomas (1836). *Corporation of the Amicable Society for a Perpetual Assurance Office.* [commercial pamphlet]. - London: the Society, 1836. - 4 pages. [RKN: 42942]

Amicable Society for a Perpetual Assurance Office (1836). *Prospectus.* [commercial pamphlet]. 1836. - 15 pages. [RKN: 62851]

Amicable Society for a Perpetual Assurance Office (1839). *[Prospectus].* [commercial pamphlet]. 1839. [RKN: 41200]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Amicable Society for a Perpetual Assurance Office (c1757). *Abstracts of charters, with byelaws and resolution of 11th August, 1757.* [corporate document]. c1757. [RKN: 8128]

Amicable Society (Liverpool) (1814). *Articles of the Amicable Society, instituted in Liverpool, the twelfth day of December, 1803; supported and carried on by the voluntary contributions of its members; for the purpose of making a provision for themselves in time of sickness, misfortune, infirmity, or incapacity of attending to business; and in some degree to provide for their legal representatives, after their decease; and for other beneficial purposes.* [corporate document]. - Liverpool: Printed by H Forshaw, 1814. - 1 vols. - 28 pages. [RKN: 43228]

Amicus (Pseudonym) (1772). *Remarks on Dr Price's observations on reversionary payments.* [book]. 1772. [RKN: 4277]

Ampère, André-Marie (1802). *Considerations sur la Théorie Mathématique du Jeu.* [book]. - Lyon: chez les Frères Perisse, 1802. - 1 vols. - 63 pages. [RKN: 43140]

Analytical Society (1813). *Memoirs.* [journal]. - Cambridge: 1813. [RKN: 1060]

Anchor Life Assurance Company (n.d.). *[Prospectus].* [commercial pamphlet]. n.d.. [RKN: 41201]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Ancient Order of Foresters (1840;1845;1846;1848;1854;1859;1863;1865). *[Collection of printed rules of the Order of Foresters in Malton, Warrington, Durham and elsewhere, 1840-1865].* [pamphlets collection]. 1840;1845;1846;1848;1854;1859;1863;1865. - 16; 32, [4]; 36; 31, [1]; 14, [2]; 16; 36; 15, [1]; 32; 7, [1] pages. [RKN: 43727]

The Ancient Order of Foresters was founded in Rochdale in 1834, when over 300 branches of the Royal Foresters Society, formed in the eighteenth century, came together to form the new Order. Its purpose was to provide support for its members in case of illness or death.

Ancient Order of Foresters Friendly Society; Neison, Francis Gustavius Paulus, Sr (1872). *Report upon the sickness experience of the Ancient Order of Foresters' Friendly Society, for the year 1870.* [corporate document]. - Newcastle-upon-Tyne: 1872. - 11 pages. [RKN: 71012]

Ancient Order of Foresters Friendly Society; Neison, Francis G P, Jr (1882). *The rates of mortality and sickness according to the experience for the five years 1871-1875, of the Ancient Order of Foresters Friendly Society, with a series of monetary tables at 3, 3½ and 4 per cent interest.* [corporate document]. - London: Printed by Harrison and Sons, 1882. - 217 pages. [RKN: 6163]

Also bound in: Neison & Barnes: AOF 1871-1875 monetary table

Ancona, J S (1850). *Hints for the valuation of ecclesiastical and other property.* [pamphlet]. - London: 1850. [RKN: 40697]

Anderson, E Garrett (1898). *Deaths in childbirth.* [pamphlet]. 1898. [RKN: 71294]
Extract from the Correspondence section of the British Medical Journal, Sept 17 1898

Angus, John *Old and new Bills of Mortality: movement of the population: deaths and fatal diseases in London during the last fourteen years.* [journal article]. [RKN: 44240]
Journal of the Statistical Society (1854) **17**(2): 117-142.

Annual Bonus Life Assurance Society *Constitution.* [corporate document]. [RKN: 40248]

[Anonymous] *Table V: Shewing the annual amount of life annuities, granted on the continuance of two lives, and the life of the longer liver of them, which will be payable for 100 pounds stock of 3 per cent. consolidated or reduced bank annuities transferred according to the average price thereof, in case the age of the elder nominee shall exceed the age of the younger nominee by more than 15 years, but not by more than 20 years at the time of transfer.* [pamphlet]. [RKN: 40293]

[Anonymous] *An appeal to the inhabitants of Richmond and its neighbourhood. By a member of the Literary and Scientific Institution.* [pamphlet]. - London: [RKN: 40584]

[Anonymous] *Elementary illustrations of the differential and integral calculus.* [pamphlet]. [RKN: 40726]

[Anonymous] *How to assure, and where to assure: a statement as to safety, by a very quiet looker-on.* [pamphlet]. - London: [RKN: 40600]

[Anonymous] *Names and residences of actuaries in London. Authorized to certify tables, which may be safely adopted in England, by Friendly Societies, for securing benefits depending on the laws of sickness and mortality. 9 & 10 Victoria, cap. 27, sec.13.* [pamphlet]. [RKN: 40546]

[Anonymous] *Sketch on the life and contributions to science of Joseph Henry.* [pamphlet]. [RKN: 40830]

[Anonymous] *Statistical tables.* [pamphlet]. [RKN: 40669]

Sections IX to XIII of a reference book, title unknown, giving various population figures for home and overseas in the early part of the 19th century

[Anonymous] ([1625-1651]). *[Compound interest tables].* [manuscript]. - [England]: [1625-1651]. - 1 pages. [RKN: 43173]

The tables are calculated at a rate of interest of 8% per annum, and this means that they were almost certainly compiled between 1625, when the maximum legal rate of interest was reduced from 10% to 8%, and 1651, when a further reduction took place, to a new rate of only 6%. The handwriting would be consistent with a date of between 1625 and 1651. -- The tables are the four standard compound interest functions of $(1+i)^n$ raised to the power of n , $s(n)$, v raised to the power of n , and $a(n)$. They are shown for values of n from 1 to 30. Interestingly there is an error in the third table (v raised to the power of n) where the second and third figures in the main column are incorrect. (observed by Chris Lewin FIA)

[Anonymous] (1751). *A letter from a gentleman in town to his friend in the country, recommending the necessity of frugality.* - 3rd ed. [pamphlet]. - London: 1751. [RKN: 40825]

[Anonymous] (1836). *An essay on the means of insurance against the casualties of sickness, decrepitude, and mortality.* [pamphlet]. - London: Charles Knight, 1836. - iv, 63 pages. [RKN: 40251]

'Comprising an article reprinted from the Westminster Review (no. XVIII) for April 1828, with additional notes and corrections' - title page.

[Anonymous] (1842). *On the application of mutual insurance to education.* [pamphlet]. - London: 1842. [RKN: 40181]

[Anonymous] (1846). *Decimal coins, weights and measures.* [pamphlet]. - London: 1846. [RKN: 40740]

[Anonymous] (1847). *A few words on behalf on the middle classes on the subject of income tax.* [pamphlet]. - London: 1847. [RKN: 40130]

[Anonymous] (1851). *Medical combinations against life insurance companies.* [pamphlet]. - London: Orr and Company, 1851. - 16 pages. [RKN: 40531]

[Anonymous] (1852). *Record of British colonies and enterprise beyond the sea.* [pamphlet]. - London: 1852. [RKN: 40815]

[Anonymous] (1852). *The finances and trade of the United Kingdom at the beginning of the year 1852.* - 4th ed. [pamphlet]. - London: 1852. [RKN: 41140]

[Anonymous] (1854). *Decimal coinage: what it ought and what it ought not to be.* [pamphlet]. - London: 1854. [RKN: 40138]

[Anonymous] (1860). *Novelties in life assurance.* [pamphlet]. - London: 1860. [RKN: 40292]

[Anonymous] (1865). *Key to premiums for life assurance, as charged by all life assurance companies in Great Britain, for all ages between 20 and 60, to insurance 100 pounds, payable at death: either with profits or without profits.* [book]. - London: 1865. [RKN: 40843]

[Anonymous] (1871). *Unbiased notes on life assurance: Illustrated by seven original tables for popular use.* [pamphlet]. - London: 1871. [RKN: 40678]

Anonymous; Freshfield, Edwin (ed) (1887). *The vestry minute book of the parish of St Margaret Lothbury in the City of London, 1571-1677*. - British Library History of Britain & Ireland. [facsimile reprint]. - London: British Library, 1887. - xlvii, [19], 150 pages. [RKN: 43848]

The book contains a transcription of the original Indenture, agreement between Edmund Warcupp, William Petty, John Graunt and others relating to the bargain and sale of "All that Great Capitall Mesuage and Tenement in One Garden... in the Parish of St Margaret in Lothbury, dated 8 March 1659, of which the Institute of Actuaries Library holds a contemporary counterpart manuscript. -- Edwin Freshfield reports, page vii: 'The street which now [1887] goes by the name of Tokenhouse Yard was not in existence prior to the very end of the Great Rebellion. It was up to that time called Tokenhouse Garden. It so happens that I have the original deeds of a sale of a portion of the land upon which Tokenhouse Yard was made in the year 1659, and these deeds relate to the making of it. These deeds I [Edwin Freshfield] acquired by accident from a bookseller, and the interest of them to me is, that in giving the boundaries of the new street upon a plan attached to the deed, the maker of the plan has also given some information with regard to the church of St Margaret's and the neighbouring houses.'

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- synopsis of the most important particulars relating to the doctrines of equations, series, fluxions, fluents etc.* [book]. - London: printed for G and S Robinson, 1814. - 336 pages. [RKN: 1376]
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English translation of first edition in Latin published 1624. -- These numbers were first invented by ... John Neper [Napier], Baron of Marchiston, and the same were transformed, and the foundation and use of them illustrated with his approbation by Henry Briggs... The uses whereof were written in Latin by the Author himselfe, and since his death published in English by diverse of his friends, according to his mind, for the benefit of such as understand not in the Latin tongue - title page. -- Library holds 2nd Latin edition of 1628 edited and corrected by Adrain Vlacq. -- This copy formerly owned by Francis Maseres (1731-1824) then the Inner Temple Library.

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The Compagnie Générale des Assurances et Grosses Aventures de France" was the first 'modern' insurance company founded in March 1686, five years after the Ordonnance sur la Marine de Colbert (of August 1681) which gave it legal recognition. It replaced the "Chambre d'assurance et de grosse aventure de France" created in 1668 after a first less exact royal decree.
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Originally published in 1699 and first translated into English in 1702. -- The translator wrongly attributes to De Witt when the author is Pieter De La Court. -- The Institute Library holds 1st (1702) and 3rd (1746) editions

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Library holds 5th (1880), 6th (1891) and 1908 editions -- Foreword by Dr C Bremiker -- Presented from the library of H Archer Thomson, FIA -- Spine title: Calculating tables

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Institute Library holds 1st (1718), 2nd (1738) and 3rd (1756) editions -- Faculty library holds 2nd (1738), 3rd (1756) and 4th (1756) editions -- In 1756 (3rd edition) De Moivre added 4 pages (pp. 325-328) with the title: Chapter IX: Serving to render the Solutions in this Treatise more general, and more correct. These 4 pages were not included in the 3rd (1750) or 4th (1752) editions of *Annuities on Lives* -- Originally entered under 20007 -- Faculty holds second copy of 3rd edition (1756) bound with: *The doctrine of interest and annuities* by Francis Bailey (1808) (see RKN 70791) -- Featured in 'Some Landmarks in Actuarial Science', exhibition, November 1985

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De Morgan, Augustus (1851). *The book of almanacs, with an index of reference, by which the almanac may be found for every year, whether in old style or new, from any epoch, ancient or modern, up to AD 2000, with means of finding the day of any new or full moon from BC 2000 to AD 2000.* [book]. - London: 1851. [RKN: 1255]

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- Professor Euler's formula for time in which the population ought to double

- 'from the excess of baptisms'

- 'Comparison of the order of mortality' [Vaud, Paris and the country, St Sulpice, Normandy and parishes]

- Mortality in different countries (London, Simpson's Table; London, Hodgson's Table; Holland, Kersseboom's Table; Sweden, Wargentin's Table)

- (Vienna, eight years; Breslau, Halley's Table; Leipzig, five years; Brunswick, four years; Berlin, four years; Brandenburg, two small towns; Brandenburg, 31 villages; Brandenburg, Sussmilch general table) -- 'Article LXXX. Two interesting tables relative to population' by 'Helveticus' considers Muret's table: 'Order of mortality of married and of single women, taken from thirtyfive registers' -- Facsimile reprint by Gale ECCO (Eighteenth Century Collections Online) on demand, 2013

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In 1766 "A contribution was set on foot and encouraged by the patentees and members of the said theatre (Theatre-Royal in Drury-Lane), in order to institute and establish a fund, for the support of such persons, whose age or infirmities should oblige them to retire from the stage." -- Rules first issued in 1775, then in 1777 (this edition) and 1781

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90 leaves in total; the first 47 largely taken up with tables of weights & measures, annuities, and interest rates, in an exemplary neat hand; and leaves 48-52 in two later hands shew a variety of tables. The final two leaves have a list of contents -- Inscribed 'J Dugmore, Swaffham, 1810'. John Dugmore was born around 1756. In a newspaper advertisement of October 1780 he describes himself as 'Surveyor of Land and Tithes' and states that he has fixed his residence at Swaffham, Norfolk. In 1792 he took out an insurance policy. In 1798 he and his wife Elizabeth (who was about 6 years younger) leased a house in Swaffham, with an adjoining cottage and outhouses and garden for 8 years, at a rent of £30 p.a. By 1807 he was described as 'gentleman' when he was appointed one of the commissioners under an Act of Parliament. Elizabeth died on 27 September 1843, aged 81, and John died a few months later on 11 February 1844, aged 87 - his will is available online from the National Archives.

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Reprinted from The Lancet, December 12 1891

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Duncan, J Matthews (1866). *Fecundity, fertility, sterility and allied topics.* [book]. - Edinburgh: 1866. [RKN: 1979]

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The Society was originally known as the Society for Equitable Assurances on Lives and Survivorships. In 1893 the official title of the office became the Equitable Life Assurance Society, following registration under the Companies Acts and the drawing up of the Memorandum and Articles of Association. -- Purchased and now owned by Institute of Actuaries, with kind support of donations from individual members of the Faculty of Actuaries and Institute of Actuaries, actuarial firms and overseas actuarial associations -- Individual manuscript items from the archive have their own records on this catalogue
<https://www.actuaries.org.uk/documents/equitable-life-assurance-society-elas-archive-1762-1975-institute-actuaries-library-london>
 Contents include: EL/1 CORPORATE RECORDS -- EL/1/1 Deeds of settlement and legal documents, 1762-1910 -- EL/1/2 Court of directors' minute books, 1762-1834 -- EL/1/3 Court of directors' records, 1765-1848 -- EL/1/4 General court of members' minute books, 1765-1849 -- EL/1/5 Committee papers, 1765-1769
 EL/2 FINANCIAL & ACCOUNTING RECORDS -- EL/2/1 Audit records, 1872-1894 -- EL/2/2 Cash books, 1774-1817 -- EL/2/3 General ledgers, 1767-1900 -- EL/2/4 Receipts and cheques, 1767-[c.1830] -- EL/2/5 Valuation reports and memoranda, 1786-1930 -- EL/2/6 Mortgage records, 1788-1860
 EL/3 LEGAL RECORDS -- EL/3/1 Litigation papers, 1798-1904
 EL/4 POLICY RECORDS -- EL/4/1 Bonus records, 1825-c.1908 -- EL/4/2 Claims books and memoranda, 1806-1869 -- EL/4/3 Mortality research, 1762-1963 -- EL/4/4 Policy forms and related items, 1787-1909 -- EL/4/5 Policy registers, 1764-1838 -- EL/4/6 Premium receipts, 1763-1809 -- EL/4/7 Proposal forms, 1764-1838 -- EL/4/8 Prospectuses, 1764-c.1950
 EL/5 PUBLICITY & MARKETING RECORDS -- EL/5/1 Accounts, reports and addresses (speeches), 1777-c.1950 -- EL/5/2 Photographs, 1900-1942, -- EL/5/3 Scrapbooks and promotional items, 1906-c.1950 -- EL/5/4 Subject / Research Files, 1762 -- 1975
 EL/6 MANUSCRIPTS -- EL/6/1 Manuscripts, 1747 -- 1835 -- EL/6/1/1 Mathematical notebook, by Thomas Bayes: 1 volume, c.1747 -- EL/6/1/2a 'Tables', by James Dodson Sr.: 1 volume. c.1756 -- EL/6/1/3 'First lecture on insurances', by James Dodson Sr.: 1 volume. c.1756 -- EL/6/1/4 'First lecture on insurances', by James Dodson Sr.: 1 volume. 1756 -- EL/6/1/5 Book of letters from Richard Price to John Edwards, actuary: 1 volume. 1768-1771 -- EL/6/1/6a 'Observations on the proper method of keeping the accounts, and determining from year to year the state of the Society', by Richard Price: 1 volume, c. 1774-1776 -- EL/6/1/7 Tables of annual premiums and tables of survivorships, by William Morgan: 1 volume. c.1780 -- EL/6/1/8a 'Calculations of premiums' based on the Northampton mortality tables, by William Morgan: 1 volume, 1781 -- EL/6/1/9 Calculations of premiums based on the Northampton mortality tables, by William Morgan: 2 volumes, [1781] -- EL/6/1/10 'Table of premiums', by William Morgan: 1 volume, 1781 -- EL/6/1/11 'Yearly computation of expected deaths and of accounts showing the state of the Society', by William Morgan: 1 volume, 1826 -- EL/6/1/12 'Calculations', by Arthur Morgan: 1 volume, 1835 -- EL/6/1/13 Tables showing the progress of the London Annuity Society in its first 24 years (1765-1789), author unknown: 1 volume, 1789
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'Il ne faut pas perdre de vue la différence qui existe entre une tontine et notre caisse. Dans une tontine, tout est éventuel; chez nous tout est prévu: dans une tontine, on doit attendre des recensements, des comptes annuels et des distributions au marc la livre; chez nous tout compte est superflu. On repose sur des certitudes que rien peut détruire; constatez votre vie; votre â relatif est connu, il indique seul la rente qui vous est due et qui vous est payée sans formalités et sans retard. Note de la page 11' - t.p. -- Two brochures with continuing pagination numbering. -- Acquired with some pages uncut - pages cut to allow bibliographic description

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Dated 'An XI' of France's Revolution period calendar, 1802 -- Library holds only this appendix volume of tables, not the full Rapport. -- Pages of Tables are unnumbered instead referencing the relevant page number in the full 'Rapport'. -- Survey of outcomes for patients, especially mothers and infants, at Hospices in Paris, during the era of the French Revolution

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Prizes of life annuities offered to incentivise purchase of Loterie Royale tickets in France, 1700. No anticipated estimate of how long life annuities might be payable for the life of those winning the prizes is apparent in the document.

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Acts headed: 'Anno Regni Guilelmi et Mariae, Regis & Reginae Angliae, Scotiae, Franciae & Hiberniae, [Quarto, Quinto, Sexto] relating to the fourth (1692), fifth (1693) and sixth (1694) years of the reign of William III and Mary II.

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Great Britain and Ireland. Parliament (1795). *An Act for more effectually carrying into execution an Act made in the thirty-third year of the reign of His present Majest, intituled 'An Act for the Encouragement and Relief of Friendly Societies', and for extending so much of the powers thereof as relates to the framing Rules and Regulations for the better Management of the Funds of such Societies, and the Appointment of Treasurers to other Institutions of a charitable Nature. (26th June 1795).* [legislation]. - London: Printed by George E Eyre and William, 1795. - [14] pages. [RKN: 43174]

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In slipcase for the Institute Library -- 1st edition and later related editions published 1700, 1722, 1726, 1729 by George Mabbutt, sometimes attributed to Sir Isaac Newton (1642-1727), owing to dedicatory preface in 1686 edition -- Institute Library also holds: The value of church and college leases considered, 2nd edition (1722), bound in Tracts volume 27 and Tables for renewing and purchasing of leases, annuities and reversions, 6th edition (1808), bound in Tracts volume 22 -- A scarce work once thought to be by Newton himself [old Wing N.1050] but since discovered to be by George Mabbut. The leaf facing the title carries a printed testimonial in Latin: "Methodus huius libri recte se habet, numerique, ut ex quibusdam ad calculum revocatis iudico, satis exacte computantur Is. Newton Math. Prof. Luc." dated Sept. 10. 1685.

[Mabbut, George] (1731). *Tables for renewing and purchasing of the leases of cathedral-churches and colleges, according to several rates of interest, with their construction and use explained. Also tables for renewing and purchasing of lives, with tables for purchasing the leases of land or houses: Fourth edition, to which is added: The value of church and college leases considered, and the advantage of the lessees made very apparent.* - 4th ed. [book]. - London: 1731. [RKN: 20054]

"Sir Isaac Newton's Tables for renewing and purchasing of leases &c" - pre-title page to this fourth edition. This is a misattribution owing to dedicatory statement appearing in original publication of 1686. -- 1st edition originally published in 1686 with editions published 1700, 1722, 1726, 1729 by George Mabbutt. -- Library also holds 'The value of church and college leases considered', 2nd edition, 1722, bound in Tracts volume 27 (1722), and another 4th edition, bound in Tracts volume 27; and, Tables for renewing and purchasing of leases, annuities and reversions, 6th edition, 1808, bound in Tracts volume 22.

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Macfadyen, James R (1870). *The principles affecting the solvency of a life assurance company, and the best means of protecting the public against their violation..* [pamphlet]. - Glasgow: 1870. [RKN: 40373]

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Mackenzie, Holt (1841). *Notes addressed to Mr Pennington on his pamphlet on the importation of foreign corn.* [pamphlet]. - London: Simpkin, Marshall & Co [etc.], 1841. - 40 pages. [RKN: 70996]

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Mallet, Edouard *Recherches historiques et statistiques sur la population de Genève, son mouvement annuel et sa longevité, depuis le XVIIe siècle jusqu'à nos jours (1549-1833).* [journal article]. [RKN: 12703]
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- Malthus, Thomas Robert** (1806). *An essay on the principle of population or a view of its past and present effects on human happiness*. - 3rd ed. [book]. - London: J Johnson, 1806. - 2 vols. - (xvi, 505, [61]; vii, [1], 559, [1]) pages. [RKN: 20010]
Library holds 3rd (1806) and 6th (1826) editions -- This does not differ significantly from the 1803 (second) edition (checked at BL 30/4/84) -- The 3rd edition (1806) is identical to the [4th] edition (1807) except that some chapters have been placed in different volumes
- Malthus, Thomas Robert** (1820). *Principles of political economy considered with a view to their practical application*. [book]. - London: John Murray, 1820. - vi, 601 pages. [RKN: 9119]
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- Malthus, Thomas Robert** (1827). *Definitions in political economy: Preceded by an inquiry into the rules which ought to guide political economists in the definition and use of their terms: With remarks on the deviation from these rules in their writings*. [book]. - London: John Murray, 1827. - viii, 261 ; 20 cm pages. [RKN: 70850]
- Malthus, Thomas Robert** (1895). *Parallel chapters from the first and second editions of an essay on the principle of population*. 1798; 1803. [book]. - New York NY (USA): 1895. [RKN: 2138]
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- Malynes (Malines), Gerard** (1686; 1981 reprint). *Consuetudo, vel, Lex Mercatoria: or, the Ancient Law-Merchant: Divided into three parts, according to the essentiall parts of Traffick: Necessary for all statesmen, judges, magistrates, temporal and civil lawyers, mint-men, merchants, mariners, and all others negotiating in all places of the world*. - 3rd ed. [facsimile reprint]. - London; Abingdon: Printed for J Redmayne. Professional Books, 1686; 1981 reprint. - 2 vols. [RKN: 20199]
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- Manchester Unity Friendly Society Independent Order of OddFellows; Ratcliffe, Henry** (1872). *Independent Order of Oddfellows, Manchester Unity Friendly Society. Supplementary report 1 July 1872*. [corporate document]. 1872. [RKN: 6056]
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- Mansfield, Ralph** (1841). *Analytical view of the census of New South Wales for the year 1841; with tables showing the progress of the population during the previous twenty years*. [pamphlet]. - Sydney: 1841. [RKN: 40846]
- [Marcet, Jane]** (1817). *Conversations on political economy; in which the elements of that science are familiarly explained*. - 2nd ed. [book]. - London: printed for Longman, Hurst, Rees, Orme, and Brown, 1817. - xii, 486 p. pages. [RKN: 41311]
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- Marcinowski, F** (1887). *Die in Preussen neben der Staatslotterie zugelassenen Lotterie-Unternehmungen*. [pamphlet]. - Berlin: 1887. [RKN: 42072]
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A stereotyped reprint of the rare first edition in English of Marx's most famous work. This edition contains an appendix of works and authors quoted in Capital

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May, T E (Sir) (1844). *A treatise upon the law, privileges, proceedings and usage of parliament.* [book]. - London: 1844. [RKN: 8235]

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McClintock, Emory (c1874). *Proposition for ascertaining the real cost of life insurance, submitted to the National Insurance Convention at its session in 1874..* [pamphlet]. c1874. [RKN: 40282]

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Philosophical Transactions [of the Royal Society] (1788) **78**: 331-349.

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Morgan, William (1788). *On the probabilities of survivorships between two persons of any given ages, and the method of determining the values of reversions depending on those survivorship*. [journal article]. 1788. - 9 pages. [RKN: 44186]

Philosophical Transactions of the Royal Society of London... Abridged (1785-1790) **16**: 475-483.

Originally published in the *Philosophical Transactions of the Royal Society* (1788) 78: 331-349 -- Paper read at the Royal Society, London, 8 May, 1788

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Papers from the Philosophical Transactions, read at the Royal Society 1788-1800 -- Spine lettering: "William Morgan's Articles in Phil. Trans" (AN: 5791) -- Spine lettering: "Morgan on Survivors" (AN: 31274) -- AN: 31274 does not contain the fifth article of 1800

Morgan, William (1788-1800). *[Papers on survivorships read before the Royal Society]*. [book]. 1788-1800. - 19, 16, 33, 41, 24 ; 28 cm pages. [RKN: 70860]

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Morgan, William (1789). *On the method of determining, from the real probabilities of life, the value of a contingent reversion in which three lives are involved in the survivorship: (Read at the Royal Society, London, 29 January, 1789)*. [journal article]. - London: 1789. - 16 pages. [RKN: 44182]

Philosophical Transactions [of the Royal Society] (1789) **79**: 40-54.

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Philosophical Transactions [of the Royal Society] (1791) **81**: 246-271.

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Philosophical Transactions of the Royal Society of London... Abridged (1791-1796) **17**: 72-74.

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Morgan, William (1794). *On the method of determining, from the real probabilities of life, the value of contingent reversions in which three lives are involved in the survivorship: (Read at the Royal Society, London, 15 May, 1794)*. [journal article]. - London: 1794. - 33 pages. [RKN: 44184]

Philosophical Transactions [of the Royal Society] (1794) **84**: 223-261.

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Morgan, William (1794). *On the method of determining, from the real probabilities of life, the value of contingent reversions in which three lives are involved in the survivorship: (Read at the Royal Society, London, 15 May, 1794)*. [journal article]. - London: 1794. - 26/03/2009 pages. [RKN: 44189]

Philosophical Transactions of the Royal Society of London... Abridged (1791-1796) **17**: 417-422.

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Morgan, William (1796). *Additional facts, addressed to the serious attention of the people of Great Britain, respecting the expences of the war and the state of the national debt*. - 4th ed. [pamphlet]. - London: Printed for J Debrett [etc.], 1796. - 53 pages. [RKN: 71492]

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Morgan, William (1796). *Facts addressed to the serious attention of the people of Great Britain respecting the expence of the war, and the state of the national debt*. - 4th ed. [book]. - London: Printed for J Debrett [etc.], 1796. - v, 48 pages. [RKN: 71491]

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Morgan, William (1796). *Facts addressed to the Serious Attention of the People of Great Britain....* - 4th ed. [book]. 1796. [RKN: 43114]
Equitable Life Assurance Society archive reference EL927B

Morgan, William (1797). *An appeal to the people of Great Britain, on the present alarming state of the public finances, and of public credit*. - 4th ed. [book]. - London: Printed for J Debrett, 1797. - vii, 84 pages. [RKN: 71493]

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Morgan, William (1800;1793;1797). *Three tracts*. [pamphlets collection (bound)]. 1800;1793;1797. [RKN: 9974]

Morgan, William (1800). *On the method of determining, from the real probabilities of life, the value of contingent reversions in which three lives are involved in the survivorship: (Read at the Royal Society, London, 12 December, 1799).* [journal article]. - London: 1800. - 24 pages. [RKN: 44185]

Philosophical Transactions [of the Royal Society] (1799) **90**: 22-46.

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Morgan, William (1801). *A comparative view of the public finances, from the beginning to the close of the late administration.* [book]. - London: Printed...by Wilson & Co for J Debrett, 1801. - 75 pages. [RKN: 71494]
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Morgan, William (1803). *A Comparative View of the Public Finances.* - 2nd ed. [book]. 1803. [RKN: 43116]
Equitable Life Assurance Society archive reference EL929B -- Faculty Library RKN 71494

Morgan, William (1803). *A Supplement to a Comparative View of the Public Finances.* [book]. 1803. [RKN: 43117]
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Morgan, William (1815). *Memoirs of the life of the Reverend Richard Price.* [book]. - London: 1815. [RKN: 718]

Morgan, William (1821). *The principles and doctrine of assurances, annuities on lives, and contingent reversions stated and explained.* [book]. - London: 1821. [RKN: 20056]

Morgan, William (1821). *The principles and doctrine of assurances, annuities on lives, and contingent reversions stated and explained [with added manuscript tables and notes].* [book;manuscript]. - London: Printed for Longman, Hurst, Rees, Orme and Brown, 1821. [RKN: 43120]

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Morgan, William (1828). *A view of the rise and progress of the Equitable Society, and of the causes which contributed to its success. With remarks on some of the late misrepresentations respecting the rules and practice of the Society.* - [1st] ed. [book]. - London: 1828. [RKN: 44301]

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Morgan, William (c1768-1826). 'Yearly computation of expected deaths and of accounts showing the state of the Society'. [manuscript]. c1768-1826. - 1 vols. [RKN: 44856]

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For biographical information on Morland, see: 'A brief account of the life, writings, and inventions of Sir Samuel Morland' [by James Orchard Halliwell] 1838 (unpublished ms in BL) 'Pell's mss in Dr Birch's collection' 27-31 (BL 10825.c.32)

Morpurgo, Emilio (1877). *Die Statistik und die Socialwissenschaften: Einzig vom Verfasser autorisirte deutsche Ausgabe. Aus dem Italienischen.* [book]. - Jena: Hermann Costenoble, 1877. - [2],viii,550 + errata leaf; with folding map and 3 plates, and tables in the text pages. [RKN: 12320]

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Morris, Corbyn (1747). *An essay towards deciding the important question, whether it be a national advantage to Britain to insure the ships of her enemies? addressed to the Right Honorable Henry Pelham.* [pamphlet]. - London: 1747. [RKN: 40174]

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Library holds later reprint: Corbyn Morris, Observations on the past growth and present state of the city of London. Reprinted from 1751 edition. With a continuation of the tables to the end of the year 1757. Bound in T Birch, A collection of the yearly bills of mortality, from 1657 to 1758 inclusive, 1758. - RKN 3837

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Journal of the Statistical Society (1881) **40(2)**: 177-261.

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Mortimer, Thomas (1791). *Every man his own broker*. - 11th ed. [book]. 1791. - 263 + folding table pages. [RKN: 20102]

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Moser, Ludwig (1839). *Die Gesetze der Lebensdauer*. [book]. - Berlin: Verlag von Veit und Comp, 1839. - xxviii,399,[1] with 2 folding plates pages. [RKN: 4462]

Mosse, Miles (1595). *The Arraignment and Conviction that is Usurie.: That is, the iniquitie and unlawfulness of usurie, displayed in sixe sermons, preached at Saint Edmunds Burie in Suffolk, upon Proverb 28.8 by Miles Mosse, Minister of the Worde and Bachelor of Divinitie. Scene and allowed by authoritie..* [book]. - London: Printed by the widdow Orwin for Thomas Man, 1595. - [20], 171 p. pages. [RKN: 42927]

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Richard Price says in *Observations on Reversionary Payments* second edition page 345 that RP has read Muret's memoir on the population of Vaud and that a good abstract of it can be found in "De re Rustica or the Repository." As we know from Professor Behar there is a double decrement table in the Muret memoir and this is confirmed in pages 84 and 85 of the separate tables at the end. Single ladies leave their table by death or marriage. Married ladies enter on marriage and leave on death.

Mutual Benefit Life Insurance Company; Miller, B J (1874). *The Actuary's report on mortality experience 1845-1873*. [corporate document]. - Newark NJ (USA): Jennings & Hardham [printers], 1874. - 12 (+ 2 charts) pages. [RKN: 71059]

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Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

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Mutual Reserve Fund Life Association ([1886]). *Prospectuses*. [commercial pamphlet]. [1886]. [RKN: 71400]

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Faculty copy dated 1616

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Nash, Frederick H (comp) (1884). *Ye names and ages of all ye old folks in every hamlet, city and town in ye state of Connecticut, now living with ye sketches of twenty living centenarians*. [pamphlet]. Printed by Price, Lee & Co, 1884. - 51 pages. [RKN: 71197]

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- Netherlands. [Mississippi Bubble 1720]; France. [Mississippi Bubble 1720]** (1720). *Het Groote Tafereel der Dwaasheid, vertoonende de opkomst, voortgang en ondergang der Actie, Bubbels en Windnegotie, in Vrankryk, Engeland, en de Nederlanden, gespleegt in den Jaare MDCCXX: Zynde een Verzameling van alle de Conditiën en Projecten van de opgerechte Compagnien van Assurantie, Navigatie, Commerce, &c. in Nederland, zo wel die in gebruik zyn gebragt, als die door de H. Staten van eenige Provincien zyn verworpen: als meede Konst-Plaatjen, comedien en gedigten, door verscheide liefhebbers uytgegeven, tot beschimpinghe dezer versoeijelyke en bedrieglyke handel, waar door in diit jaar, verscheide familien en persoonen van hooge en lage stand syn geruineerd, en in haat middelen verdorven, en de oprechte negotie gestremt, zo in Vrankryk, Engeland als Nederlande*. - [1st] ed. [book]. - [Amsterdam]: Gedrukt tot waaschouwinge voor de Nakomelingen, in 't noodlottige jaar, voor veel zotte en wyze, 1720. - [2], 52, 31, 8, 10 + 64 p. of plates: illustrated pages. [RKN: 43939]
Title translates as: [=The Great Mirror of Folly, showing the rise, progress and fall of the trade in stocks, Bubbles and Wind, that took place in France, England and the Netherlands in the Year MDCCXX. Being a compilation of all the Charters and Proposals of the incorporated companies of insurance, navigation, commerce, etc. in the Netherlands, both the ones that came into existence as well as those that were rejected by the States [legislatures] of some of the Provinces along with artistic prints, comedies and poems, published by the various amateurs with a view to do injury to this detestable and fraudulent commerce, by which in this year various families and persons of high and low standing have been ruined, and lost their possessions, which impeded legitimate trade in France as well as England and the Netherlands] -- Other editions published have varying numbers of additional plates
- Netherlands. Staten Generael der Vereenighde Nederlanden** (1665). *Publicatie. De Staten Generael der Vereenighde Nederlanden: Allen den genen die desen sullen sien ofte hoozen lesen....* [poster]. - In 's Graven-Hage: By Hillebrandt van Wouw, 1665. [RKN: 43069]
Framed poster presented to the Institute of Actuaries on the occasion of its 125th anniversary
- New deed of settlement of the Society for the benefit of the widows of the officers of the hospital and regimental medical staff of His Majesty's Army*. [pamphlet]. 1829. [RKN: 62665]
- New England Mutual Life Insurance Company of Boston; Wright, Walter C** (1893). *Female life mortuary experience of the New England Mutual Life Insurance Company of Boston, Massachusetts, 1863-1892*. [corporate document]. - Boston MA (USA): 1893. [RKN: 2889]

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New York Life Insurance Company (1892). *Report of the superintendent and deputy superintendent of the insurance department on the examination of the New York Life Insurance Company.* [corporate document]. 1892. - 96 pages. [RKN: 71139]

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Manuscript annotation in Latin on p.45: 'Qui stat & Regione premini o. progressionis primae' (repeated in printed text) on right-hand margin has been observed as possibly in Isaac Newton's own hand, but this has been discounted by Cambridge University Library curator, Scott Mandlebrote -- Manuscript notes in English on pages before title page are in another contemporary's hand, not attributable to Isaac Newton.

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Newton, Isaac, Sir, 1642-1727; Stewart, John (translator) (1745). *Sir Isaac Newton's two treatises of the quadrature of curves: and analysis by equations of an infinite number of terms, explained, containing the treatises themselves translated into English with a large commentary / by John Stewart*. [book]. - London: Printed by James Bettenham ... and sold by John Nourse [etc.], 1745. - xxxii, 479 ; 29 cm pages. [RKN: 70866]

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Pett, Peter (Sir) (1688). *Electrostatic enlargement from microfilm of pages 1 to 4 missing from Institute's copy of "The happy future state of England"*. [photocopy]. 1688. [RKN: 20018]
Electrostatic enlargement from microfilm filed in the correct place in the book, obtained from British Library

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A detailed biography of Sir William Petty chiefly derived from manuscript documents previously unpublished. There is a complete chapter devoted to Petty's 'Political arithmetick' (179-231) for which the author acknowledges the help of Henry Sidgwick. The appendices include a bibliographical list of Petty's works, a copy of his Will and an outline of his survey in Ireland.

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Petty, William (1683). *Another essay in political arithmetick, Concerning the Growth of the City of London: With the Measures, Periods, Causes and Consequences thereof*. 1682. [book]. - London: Printed by H H for Mark Pardoe, 1683. - 47 pages. [RKN: 42932]

- Petty, William** (1686;1687). *[Collected texts on Political Arithmetick]*. [pamphlets collection (bound)]. - London: Printed for Mark Pardoe; J. Lloyd; Henry Mortlocke, 1686;1687. - 1 vols. - 50; 6, 8, [3], [4]; 21; 4; 51 pages. [RKN: 43060]
Volume contains all of Petty's 'Essays in political arithmetick' issued before his death in 1687. Although advertised in successive term Catalogues, Petty's 'Essays' and other works were also sold bound together in various combinations; many such volumes have since been broken up. Petty's Political Arithmetick appeared posthumously in 1690 and was included, with the earlier Essays, in *Several Essays in Political Arithmetic* (1699). -- Separate catalogue entries for each text - see RKN 43061, 43062, 43063, 43064, 43065
- Petty, William** (1686). *An Essay Concerning the Multiplication of Mankind: Together with Another Essay in Political Arithmetick, Concerning the Growth of the City of London: with measures, periods, causes, and consequences thereof*. 1682.. - Second edition revised and enlarged ed. [pamphlet]. - London: Printed for Mark Pardoe, 1686. - 1 vols. - [2], 50; 8vo pages. [RKN: 43061]
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- Petty, William** (1686). *Further observations upon the Dublin-Bills: or, accompts of the houses, hearths, baptisms, and burials in that city. The second edition, corrected and enlarg'd*. London: Printed for Mark Pardoe..., 1686.
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- Petty, William** (1687). *Observations upon the Cities of London and Rome*. [pamphlet]. - London: Printed for Henry Mortlocke, 1687. - 1 vols. - 4; 8vo pages. [RKN: 43064]
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- Petty, William** (1687). *Five essays in political arithmetick*. [pamphlet]. - London: Printed for Henry Mortlocke..., 1687. - 1 vols. - [9], 51, 51, [1]; 8vo pages. [RKN: 43065]
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- Petty, William** (1699). *Several essays in political arithmetick*. [book]. - London: Printed for Robert Clavel ... and Henry Mortlock, 1699. - 276 ; 20 cm pages. [RKN: 70872]
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- Philippe, Henry (fl. 1646-1677)** (1676). *The purchasers pattern, much enlarged..* - Fifth Edition ed. [book]. - London: Printed for Ben. Billingsley, 1676. - 1 vols. - [36], 259, [1], 24, [6] pages. [RKN: 20230]
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- Pitcairn, D** (1871). *On the winding-up of life insurance companies*. [pamphlet]. - London: 1871. [RKN: 40232]

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Pollard, G (1845). *Banking, currency and taxation.* [pamphlet]. - London: 1845. [RKN: 40561]

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Contains various premiums, valuation and sickness tables prepared by John Finlaison and Griffith Davies -- Library holds photocopy from Trevor Sibbett [RKN 10150 - BVD pam erm]

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Philosophical Transactions [of the Royal Society] (facsimile) (1764) **54**: 296-325.

Further analysis of 'An essay towards solving a problem in the Doctrine of Chances. By the late Rev. Bayes, F.R.S., communicated by Mr Price, in a letter to John Canton, A.M. F.R.S', *Philosophical Transactions of the Royal Society* 53 (1764). -- Reference from facsimile reprint of *Philosophical Transactions* held at Staple Inn Library.

Price, Richard (1768-1771). *[Book of letters from Richard Price to John Edwards, actuary to the Society for Equitable Assurances on Lives and Survivorships]*. [manuscript]. 1768-1771. - 1 vols. [RKN: 44854]

Manuscript book of letters from Richard Price copied by a contemporary hand to John Edwards, actuary to the Society for Equitable Assurances on Lives and Survivorships, written 1768 to 1771, as featured among the Archive of the Equitable Life Assurance Society acquired by the Institute of Actuaries in November 2006. -- Individual manuscript has reference EL/6/1/5 in Archive of the Equitable Life Assurance Society. -- Reproduced in Angus S Macdonald et al. (2010). *Chance and Assurance: manuscripts of the work of Thomas Bayes, James Dodson, Richard Price and William Morgan in the Archive of the Equitable Life Assurance Society* [DVD digital presentation, Institute of Actuaries, 2010]

Price, Richard (1769). *Observations on the expectations of lives, the increase of mankind, the influence of great towns on population, and particularly the state of London, with respect to healthfulness and number of inhabitants.* [journal article]. - London: 1769. [RKN: 3798]

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Price, Richard (1771). *Observations on reversionary payments; on schemes for providing annuities for widows, and for persons in old age; on the method of calculating the values of assurances on lives; and on the national debt: To which are added, four essays on different subjects on the doctrine of life annuities and political arithmetick: Also, and Appendix containing a complete set of tables: particularly, four new tables, shewing the probabilities of life in London, Norwich, Northampton, and the values of joint lives.* - [1st] ed. [book]. - London: Printed for T Cadell, 1771. - xv, [1], 344 pages. [RKN: 20052]

Institute Library holds 1st (1771), 2nd (1772), 3rd (1773), 4th (1783), 5th (1792), 6th (1803) and 7th (1812) editions

Price, Richard (1772). *An appeal to the public on the subject of the national debt.* [book]. 1772. [RKN: 4275]

Price, Richard (1772). *Observations on reversionary payments; on schemes for providing annuities for widows, and for persons in old age; on the method of calculating the values of assurances on lives; and on the national debt: To which are added, four essays on different subjects on the doctrine of life annuities and political arithmetick: Also, and Appendix containing a complete set of tables: particularly, four new tables, shewing the probabilities of life in London, Norwich, Northampton, and the values of joint lives: The second edition, with a supplement containing additional observations and tables.* - Second ed. [book]. - London: Printed for T Cadell, 1772. [RKN: 41312]

Second edition with supplement. -- Library holds 1st (1771), 2nd (1772), 3rd (1773), 4th (1783), 5th (1792), 6th (1803) and 7th (1812) editions

Price, Richard (1773). *Observations on reversionary payments.* - 3rd enlarged ed. [book]. - London: 1773. [RKN: 41313]

3rd edition enlarged -- Library holds 1st (1771), 2nd (1772), 3rd (1773), 4th (1783), 5th (1792), 6th (1803) and 7th (1812) editions

Price, Richard; Laudable Society for the Benefit of Widows (1774). *Calculations and observations relating to the scheme of the Laudable Society for the Benefit of Widows. A true state of the accounts of the Laudable Society for the Benefit of Widows from Michaelmas, 1773, to Michaelmas, 1794, on the following suppositions [...]: [with:] Reasons for dissolving the Laudable Society: [with:] Reasons against dissolving the Laudable Society for the Benefit of Widows.* [corporate document]. - London: 1774. - 8; 3; 3; 3 pages. [RKN: 43218]

Four folio pamphlets, including two versions of 'Reasons for dissolving the Laudable Society'. -- Calculations and observations relating to the scheme of the Laudable Society for the Benefit of Widows. A true state of the accounts of the Laudable Society for the Benefit of Widows [...] by R. Price, Newington Green, March 22nd, 1774' - p.8 -- 'Reasons for dissolving the Laudable Society' exists in two versions, one longer with variant text showing quotations of 'Benj. Webb'.

Price, Richard (1774-1775). *'Observations on the proper method of keeping the accounts, and determining from year to year the state of the Society'.* [manuscript]. 1774-1775. - 1 vols. [RKN: 44855]

Manuscript book of work of Richard Price copied by a contemporary hand presented to the Society for Equitable Assurances on Lives and Survivorships, December 1774 to January 1775, as featured among the Archive of the Equitable Life Assurance Society acquired by the Institute of Actuaries in November 2006. -- Individual manuscript has reference EL/6/1/6 in Archive of the Equitable Life Assurance Society. -- Reproduced in Angus S Macdonald et al. (2010). *Chance and Assurance: manuscripts of the work of Thomas Bayes, James Dodson, Richard Price and William Morgan in the Archive of the Equitable Life Assurance Society* [DVD digital presentation, Institute of Actuaries, 2010]

Price, Richard (1775). *Short and easy Theorems for finding, in all cases, the differences between the Values of Annuities payable yearly, and of the same Annuities payable half-yearly, quarterly, or momentarily: By the Rev. Richard Price, D.D., F.R.S. In a letter to Sir John Pringle, Bart. P.R.S.* [journal article]. London, 1775. [RKN: 43083]
Philosophical Transactions [of the Royal Society] (1775) **66**: 109-128.

Price, Richard (1776). *Observation on the Nature of Civil Liberty, the Principles of Government, and the Justice and Policy of the War with America.: To which are added an Appendix and Postscript, containing a State of the National Debt, an Estimate of the Money drawn from the Public by the Taxes, and an Account of the National Income and Expenditure since the last War.* - the Sixth edition ed. [book]. - London: Printed for T Cadell, 1776. - [4], 132 pages. [RKN: 43112]

Equitable Life Assurance Society archive reference EL912B

Price, Richard; Arthur Worsop, John (1778). *'Copy of a Petition for an Act to enable John Arthur Worsop to settle a Jointure upon any Woman or Women he may hereafter marry on the terms therein mentioned' [together with]: [Letter from Richard Price, dated 28 February 1778, and separate calculations related to the petition].* [manuscript]. 1778. - 5 (petition); 2 (letter); [4] p. (calculations) pages. [RKN: 43195]

The petitioner, John Arthur, was from Doncaster; Richard Price writes from his address in Stoke Newington, London. Outside pages to petition indicates addressee: 'Shirton, Gray's Inn' -- The case had two aspects, together making it complicated enough to require an Act of Parliament. John Arthur had to change his surname to inherit his relative's estate; and he was obliged to set aside a sum of money out of his inheritance sufficient to make appropriate & specified payments to anyone whom he might marry and whom he might pre-decease. To this end, no less "an able Calculator" than Richard Price was engaged by the petitioner "to ascertain what particular sums of money should be set apart as a fund". By 1778, Price was already celebrated; By engaging his services, Worsop was doing his best to ensure the success of his petition. Price's calculations and explanations run to some 1000 words; they are based on the principles of Abraham De Moivre and Halley, and are formidably complex but he comes up with answers. His letter adds something which he had overlooked -- 'I could not make myself easy without informing you of this and hope it will not come too late to be inserted in the Bill...' Together, the petition with Price's calculations, and his letter, offers a most useful insight into actuarial science and its practical application when it was still in its earliest stages - Alex Fotheringham bookseller

Price, Richard (1780). *An essay on the population of England, from the Revolution to the present time: With an Appendix containing Remarks on the Account of the Population, Trade, and Resources of the Kingdom, in Mr Eden's Letters to Lord Carlisle.* - Second edition, with corrections and additions ed. [book]. printed for T Cadell, 1780. - vi, 88 pages. [RKN: 43679]
Second separate edition, with some alterations.

Price, Richard (1783). *Observations on Reversionary Payments; on Schemes for providing Annuities for Widows, and for Persons in Old Age.* - 4th ed. [book]. - London: Printed for T Cadell, 1783. - 2 vols. [RKN: 41314]
4th edition enlarged in 2 volumes, 1783 -- Library holds 1st (1771), 2nd (1772), 3rd (1773), 4th (1783), 5th (1792), 6th (1803) and 7th (1812) editions

Price, Richard (1785). *Observations on the importance of the American Revolution' and the Means of making it a Benefit to the World: To which is added, A Letter from M. Turgot, late Comptroller-General of the Finances of France:: With An Appendix, containing a Translation of the Will of M. Fortuné Ricard, lately published in France: / By Richard Price, D.D. L.L.D..* [book]. - London: Printed for T Cadell, 1785. - viii, 156 pages. [RKN: 43180]

Price, Richard (1787). *Sermons on the Christian Doctrine as received by the different denominations of Christians.* [book]. - London: Printed for T Cadell, 1787. - 4, vii, 368 pages. [RKN: 43113]
Equitable Life Assurance Society archive reference EL922B

Price, Richard; Morgan, William (1792). *Observations on reversionary payments.* - 5th ed. [book]. - London: 1792. [RKN: 41315]
5th edition in 2 volumes, with additions by W Morgan, 1792 -- Institute Library holds 1st (1771), 2nd (1772), 3rd (1773), 4th (1783), 5th (1792), 6th (1803) and 7th (1812) editions

Price, Richard; Morgan, William (1803). *Observations on reversionary payments.* - Sixth ed. [book]. - London: 1803. [RKN: 41316]
6th edition in 2 volumes, with additions by W Morgan, 1803 -- Institute Library holds 1st (1771), 2nd (1772), 3rd (1773), 4th (1783), 5th (1792), 6th (1803) and 7th (1812) editions

Price, Richard; Morgan, William (1812). *Observations on reversionary payments.* - Seventh ed. [book]. - London: 1812. - 2 vols. [RKN: 41317]
7th edition in 2 volumes, with additions by W Morgan, 1812 -- Institute Library holds 1st (1771), 2nd (1772), 3rd (1773), 4th (1783), 5th (1792), 6th (1803) and 7th (1812) editions -- Institute: Second copy of Volume 1 of the 1812 edition donated by College of Insurance, 11 January 1989. -- Institute: Second copy can be sold or disposed of at an appropriate time -- Featured in 'Some Landmarks in Actuarial Science', exhibition, November 1985

Price, Richard; Morgan, William (1816;1815). *Sermons on Various Subjects by the late Richard Price, DD FRS [bound with]: Memoirs of the Life of the Rev. Richard Price DD FRS by William Morgan.* [book]. - London: Printed for Longman, Hurst, Rees, Orme and Brown. Printed for R Hunter and R Rees, 1816;1815. - v, 404; viii, 189 pages. [RKN: 43118]
Equitable Life Assurance Society archive reference EL933B

Price, Richard (1903 reprint). *Letters to and from Richard Price DD, FRS, 1767-1790.* [manuscript reprint]. - Cambridge: John Wilson. Cambridge University Press, 1903 reprint. - 119 pages. [RKN: 43129]
Reprinted from the Proceedings of the Massachusetts Historical Society, May 1903 -- Equitable Life Assurance Society archive reference EL964B

Price, Richard; Babb, James T (editor) (1962). *The Reverend Doctor Richard Price 1723-1791: Letters by, to and about him in the Collection of Yale University.* [book]. - New Haven CT (USA): Yale University, 1962. - [71] pages. [RKN: 43130]
Equitable Life Assurance Society archive reference EL968B -- "This is only a selection. There are many others, including, in the Boswell Papers, a forty-four page unpublished manuscript "A letter to Dr Price containing remarks upon his pamphlet, concerning the great happiness of America, rising from her late independence", by James Wilson, a signer of the Declaration of Independence" - title page. -- "Presented to John Henry Bevan, CB MC, President, Equitable Life Assurance Society on the occasion of the twohundredth anniversary of that company by his friend, the Librarian of Yale University James T Babb." - title page -- Facsimile reproductions of letters of Richard Price and contemporaries.

[Price, Richard]; [London Annuity Society] (c1789). *Tables showing the progress of the London Annuity Society in its first 24 years (1765-1789).* [manuscript]. c1789. - 1 vols. [RKN: 43630]
Manuscript on parchment sheets bound into book thought to be the work of Richard Price as featured among the Archive of the Equitable Life Assurance Society acquired by the Institute of Actuaries in November 2006. -- Individual manuscript has reference EL/6/1/13 in Archive of the Equitable Life Assurance Society.

[Priestley, Joseph]; [Maseres, Francis] (1787). *An account of a Society, for encouraging the industrious poor. With a table for their use: To which are prefixed, some considerations on the state of the poor in general.* [book]. - Birmingham: Printed by Pearson and Rollason, 1787. - 23, 31 pages. [RKN: 43214]

The author, Joseph Priestley, has been attributed, and is not identified in this text -- Baron Francis Maseres is identified as the originator of A Table showing the payment due (reckoning interest at 4½ per cent) for a life annuity of one pound of ten shillings, payable quarterly. To commence at any age from 35 to 75. -- Table presents for each age of purchaser from Age 14¾ to 15½ to Age 72¾ to 73½

Primatt, Stephen (1680). *The city and country purchaser and builder.* [book]. 1680. [RKN: 20000]
Folding leaf is missing from p.146, otherwise complete

Probyn, Leslie (1892). *Old age pension A lecture.* [pamphlet]. - Staines: 1892. [RKN: 41962]
Collected papers: Papers on British social insurance 1889-1897

Proceedings at the first annual general meeting of contributors to the Scottish Provident Institution, held at Edinburgh, February 20 1839. [pamphlet]. - Edinburgh: Printed by W Oliphant, Jun & Co, 1839. - 31 pages. [RKN: 71497]

Proceedings of the nineteenth annual meeting of the Fire Underwriters' Association of the Pacific. [pamphlet]. The Coast Printing Company, 1895. - 155 (+ 1 street map) pages. [RKN: 71195]

Proctor, Richard A (1887). *Chance and luck: a discussion of the laws of luck, coincidences, wagers, lotteries, and the fallacies of gambling; with notes on poker and martingales.* - 2nd ed. [book]. - London: Longmans, Green, 1887. - 263 pages. [RKN: 1599]
Library holds 2nd (1887) and 3rd (1889) editions

Proctor, Richard A (1889). *Chance and luck: a discussion of the laws of luck, coincidences, wagers, lotteries, and the fallacies of gambling; with notes on poker and martingales.* - 3rd ed. [book]. - London: Longmans, Green, 1889. - 263 pages. [RKN: 41587]
Library holds 2nd (1886) and 3rd (1889) editions

Professional Life Assurance Company (1850). *Prospectus, annual reports, tables etc. of the Professional Life Assurance Company, admitting on equal terms persons of every class and degree to all its advantages.* [commercial pamphlet]. - London: Printed by John Teulon, 1850. - 190 pages. [RKN: 71062]

Professional Life Assurance Company; Baylis, Edward (1853). *Reply of the Professional Life Assurance Company to the attacks of its assailants; with remarks illustrative and explanatory of the new system of life assurance.* - 4th ed. [pamphlet]. - London: 1853. [RKN: 8162]

Professional Life Assurance Company (1853). *Opinions of the press on the reply of the Professional Life Assurance Company to the attacks of its assailants.* [corporate document]. - London: Printed by John Teulon, 1853. - 216 pages. [RKN: 71060]

Progression, interpolation, interest, annuities-certain and probability. [book]. 1892. [RKN: 4334]
Title page missing, apparently issued by an American college. Date on fly leaf: 1892

Promoter Life Assurance and Annuity Company (n.d.). [Prospectus]. [commercial pamphlet]. n.d.. [RKN: 41262]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

[Property and income tax pamphlets]. [pamphlets collection (bound)]. 1851-1852. [RKN: 7021]

Prospectus of a plan for establishing in Scotland a general fund, for securing provision to widows, sisters &c, and insuring capital sums on lives, to be called the Scottish Widows' Fund and Equitable Assurance Society.: Specimen of the tables proposed to be adopted [commercial pamphlet]. - Edinburgh: Thomas Allan and Company, 1812. [RKN: 71558]
Bound in a volume reading 'The Scottish Widows' Fund' on spine. -- Contains list of Patrons, Directors, etc and report of first meeting on 25 March 1812.

Prospectuses of life assurance offices 1888. [commercial pamphlet]. 1887-1888. [RKN: 71557]
Bound volume of life office prospectuses collected for the years 1887-1888.

[Prospectuses, reports etc]. [commercial pamphlet]. 1814-1845. [RKN: 71534]

Protector Life Association (n.d.). [Prospectus]. [commercial pamphlet]. n.d.. [RKN: 41263]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Protestant Dissenters' and General Life and Fire Assurance Company (n.d.). [Prospectus]. [commercial pamphlet]. n.d.. [RKN: 41264]
Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Provident Life Office (1806). *Deed of constitution and bye-laws of the Provident Life Office, dated 17th October 1806.* [pamphlet]. - London: C Roworth and Sons [printer], 1871. - v, 61 pages. [RKN: 71258]

[Provident Fund] *Remarks on a proposed scheme for the conversion of the assessments levied on public salaries, under Act 4 & 5 Will., Cap. 24 into a "Provident Fund" for the support of the widows and orphans of civil servants of the crown.* [corporate document]. - London: [RKN: 40103]

Provident Life and Trust Company of Philadelphia; Wing, A S (1886). *Mortality experience of the Provident Life and Trust Company of Philadelphia, 1866 to 1885.* [corporate document]. - Philadelphia PA (USA): 1886. [RKN: 2887]

Provident Life Office (1833). *Report of the second trial in the case Duckett v. Williams; being an action brought by the Provident Life Office, for the recovery of sundry annual premiums paid to the Hope Assurance Company....* [corporate document]. - London: James Ridgway, 1833. - 78 pages. [RKN: 71334]

Provident Life Office (1835). *[Prospectus]*. [commercial pamphlet]. 1835. [RKN: 41265]

Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

Prudential Assurance Co Ltd (1867). *Appendix to the eighteenth annual report submitted to the annual meeting on the 26th of April 1867 containing the experience of the company in the industrial for the three years 1864, 1865 and 1866.* [corporate document]. - London: 1867. [RKN: 8193]

Prudential Assurance Co Ltd (1880). *History of the Prudential Assurance Company.* [BOOK]. - London: Holborn Bars, 1880. - 81 pages. [RKN: 70414]

Prudential Assurance Company; Harben, H (1871). *Mortality experience of the Prudential Assurance Company in the Industrial Branch for the years 1867 to 1870, with observations.* [corporate document]. - London: 1871. [RKN: 2905]

[Prussian Widows Fund] (1796). *Patent und Reglement für die Königlich Preussische allgemeine Wittwen-Verpflegungs-Anstalt. De Dato Berlin, den 28. December 1775. Von neuem abgedruckt und mit den Publicatis vom 1sten July 1783 und 25 May 1796 vermehret, im Jahre 1796.* [corporate document]. 1796. [RKN: 42842]

Pryde, James (1857). *Tables for calculating interest on a new method.* [book]. - Edinburgh: 1857. [RKN: 4378]

Pryde, James (ed) (1886;1892;1912). *Mathematical tables consisting of logarithms of numbers 1 to 108000. Trigonometrical, nautical, and other tables.* [book]. - London; Edinburgh: W & R Chambers, Ltd., 1886;1892;1912. [RKN: 1431]

Purdon, H S (1872). *Brief remarks upon medical examination for life assurance.* [pamphlet]. - Belfast: W & G Baird [printer], 1872. - 8 pages. [RKN: 71037]

Purdy, William (1876). *The city life: its trade and finance.* [book]. - London: Sampson Low, Marston, Searle & Rivington, 1876. - xii,243,[1],[24] pages. [RKN: 11009]

Pye-Smith, Philip H (1897). *Life assurance: a lecture delivered at Guy's Hospital.* [article offprint]. - London: Imperial Life Office, 1897. - 16 pages. [RKN: 70223]

Reprinted from Guy's Hospital Gazette Nov 20th 1897

Queen Insurance Company (1863). *[Prospectus]*. [commercial pamphlet]. 1863. [RKN: 41180]

Queen Insurance Company (1867). *Address by the ex-London directors of the Queen Insurance Company to the shareholders.* [corporate document]. 1867. - 15 pages. [RKN: 71298]

Queensland [Life Insurance Act 1879]. [pamphlet]. 1879. [RKN: 71171]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1835). *Sur l'homme et le developpement de ses facultés, ou essai de physique sociale.* [book]. - Paris: Bachelier, 1835. - 2 vols. - 327; viii, 327 pages. [RKN: 2574]

Library holds facsimile reprint of 1842 English translation: A treatise on man and the development of his faculties. London, 1842 [RKN 4038; also 9298]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1838). *De l'influence des saisons sur la mortalité aux differens âges dans la Belgique....* [photocopy]. - Bruxelles: M. Hayez, Imprimeur de l'Academie Royale, 1838. [RKN: 9297]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874; Beamish, Richard (trans) (1839;1849). *Popular instructions on the calculation of probabilities.* [book]. - London: 1839;1849. [RKN: 1668]

Institute: We also have the 1853 edition in French (RKN:1669)

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1842). *A treatise on man and the development of his faculties.* [pamphlet]. - Edinburgh: William and Robert Chambers, 1842. - 126 (+ 7 plates) pages. [RKN: 71424]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1844). *Recherches statistiques.* [book]. - Brussels: 1844. [RKN: 2573]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1846). *Lettres sur la théorie des probabilités, appliquée aux sciences morales et politiques.* [book]. - Brussels: M Hayez, 1846. - iv,450 pages. [RKN: 1667]

For English translation, see Quetelet, A: Letters...etc. London 1849 [RKN:1666]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1849). *Nouvelles tables de mortalité pour la Belgique.* [pamphlet]. - Brussels: 1849. [RKN: 41050]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874; Downes, Olinthus G (tr) (1849). *Letters addressed to the Grand Duke of Saxe Coburg and Gotha, on the theory of probabilities, as applied to the moral and political sciences*. [book]. - London: 1849. [RKN: 1666]
Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1850). *Nouvelles tables de population pour la Belgique*. [pamphlet]. - Brussels: 1850. [RKN: 41051]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1853). *Theorie des probabilités*. [book]. - Brussels: 1853. [RKN: 1669]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1854). *Sur les tables de mortalité et spécialement sur les tables de mortalité de la Belgique*. [pamphlet]. - Paris: 1854. [RKN: 40819]

Quetelet, Lambert-Adolphe-Jacques, 1796-1874 (1872). *Tables de mortalité et leur développement*. [pamphlet]. - Brussels: F Hayez, 1872. - 39 pages. [RKN: 71346]

Quiquet, Albert (1893). *Aperçu historique sur les formules d'interpolation des tables de survie et de mortalité*. - 2nd ed. [book]. - Paris: Warnier, 1893. [RKN: 70407]
 Bound with same author's: *Représentation algébrique des tables de survie: généralisation des lois de Gompertz, de Makeham etc.* (1893)

Quiquet, Albert (1893-1931). *Oeuvres Diverses, volume 2*. [book]. 1893-1931. [RKN: 249]

Raedell, Carl (1857). *Vollständige Anweisung die Lebensfähigkeit von Versicherungs-Anstalten in Bezug auf das menschliche Leben und Sterben zu untersuchen*. [book]. - Berlin: Otto Kante, 1857. - xiv, 425 pages. [RKN: 4476]
 Also bound in Tracts volume 31

Raedell, Carl (1857). *Vollständige Anweisung die Lebensfähigkeit von Versicherungs-Anstalten in Bezug auf das menschliche Leben und sterben zu untersuchen*. [pamphlet]. - Berlin: 1857. [RKN: 40481]

Railway Benevolent Institution (1871). *Report of the proceedings at the annual dinner, held May 10th 1871 and at the thirteenth annual general meeting held at the offices of the Great Northern Railway Company, King's Cross, Monday June 19th 1871*. [pamphlet]. 1871. - 104 (+ 3 sheets) pages. [RKN: 70914]
 Bound to the back of this pamphlet are three other items: (1) a list of cases of the Railway Benevolent Institution (RBI); (2) minutes of a meeting of the RBI held in 1872; and (3) an advertisement for the RBI

Railway Guards Universal Friendly Society; Neison, Francis Gustavius Paulus, Sr (1880). *Report on the Railway Guards' Universal Friendly Society*. [corporate document]. - London: M'Corquodale & Co, 1880. - 27 pages. [RKN: 71020]

Railway Passengers Assurance Company (1860). *Instructions to agents of the Railway Passengers Assurance Company for insuring against accidents of all kinds, or against railway accidents exclusively*. [corporate document]. - London: Railway Passengers Assurance Company Office, 1860. - 36 pages. [RKN: 43204]

Raleigh, S (1863). *On some leading points in the practical finance of life assurance. Read in the Association for the Promotion of Social Science, October 13 1863.* [pamphlet]. - Edinburgh: 1863. [RKN: 40214]

Raleigh, S; Morgan, Arthur; Equitable Life Assurance Society; Scottish Widows' Fund and Life Assurance Society (1865). *Correspondence between Arthur Morgan of the Equitable Assurance Society and Samuel Raleigh of the Scottish Widows' Fund and Life Assurance Society*. [corporate document]. - Edinburgh: 1865. [RKN: 5125]

Raleigh, S (1870). *Remarks on Mr Stephen Cave's bill "To amend the law relating to life assurance companies", and the principles of legislation applicable to these institutions. Read before the Scottish Association for promoting amendment of the law, 28th March 1870*. [pamphlet]. - Edinburgh: 1870. [RKN: 40233]

Raleigh, Samuel (1863-1896). *Address to the Actuarial Society of Edinburgh at their opening session*. [pamphlet]. - Edinburgh: 1863-1896. [RKN: 40631]
 Faculty also holds copy bound within volume entitled: *Actuarial Society Presidential Addresses 1863-96*

Ramazzini, Bernardino; Hoffman, Frederick L (1750). *Health preserved, in two treatises: I. On the diseases of artificers, which by their particular callings they are most liable to. With the method of avoiding them, and their cure. By Bern. Ramazini. II. On those distempers, which arise from particular climates, situations and methods of life. With directions for the choice of a healthy air, soil and water. By Frederick Hoffman*. - 2nd English ed. [book]. John Whiston, 1750. - xvi, 332 pages. [RKN: 11137]

Ramchundra, Y (1859). *A treatise on problems of maxima and minima, solved by algebra*. [book]. - London: William H Allen & Co, 1859. [RKN: 1015]
 Under the superintendence of A De Morgan

Rance, T G (1852). *Tables of compound interest for every ¼ per cent from ¼ to 10 per cent and for every year from 1 to 100 years*. - 1st ed. [book]. - London: 1852. [RKN: 4417]
 Library holds 1st (1852) and 2nd (1876) editions

Rance, T G (1876). *Tables of compound interest for every ¼ per cent from ¼ to 10 per cent and for every year from 1 to 100 years*. - 2nd ed. [book]. - London: 1876. [RKN: 41318]
 Library holds 1st (1852) and 2nd (1876) editions -- Originally entered under 4417

Rankin, Robert (1830). *A familiar treatise on life assurances and annuities, comprising a historical sketch of the science and of life assurance offices, with observations on the duration of human life, and other objects of interest connected with the subject, to which are appended original tables of the probabilities and expectations of life in the City of Bristol, etc..* [pamphlet]. - London; Bristol: Simpkin & Marshall. William Brown, 1830. - xvi, 99 pages. [RKN: 40829]

Ratcliffe, Henry (1850;1862). *Observations on the rate of mortality and sickness existing amongst friendly societies: particularised for various trades, occupations and localities, with a series of tables shewing the value of annuities, sick gift, assurance for death and contributions to be paid equivalent thereto: calculated from the experience of the members composing the Manchester Unity of the Independent Order of Odd Fellows.* [book]. - Manchester (1850 edition); Colchester (1862 edition): 1850;1862. [RKN: 6165]
1850 edition published Manchester; 1862 edition, Colchester

Rates of extra premium for foreign climates, agreed to be adopted by all the life assurance offices of Scotland (1840). [pamphlet]. 1840. - 4 pages. [RKN: 62646]

Rathbone, T W (1854). *Comparative statement of the different plans of decimal accounts and coinage.* [pamphlet]. - London: 1854. [RKN: 40141]

Rathbone, Theodore W (1854). *An examination of the report and evidence of the Committee of the House of Commons on Decimal Coinage, with reference to a simpler, sounder, and more comprehensive mode of proceeding.* - 3rd ed. [pamphlet]. - London: 1854. [RKN: 40137]

Rawlinson, Robert (1845). *Statements on railway contracts and railway labourers..* [pamphlet]. - Manchester: 1845. [RKN: 40802]

Reade, A Arthur (1890). *Insurance made easy.* [pamphlet]. - Manchester: A Arthur Reade, 1890. - 75 pages. [RKN: 71034]

Reale Compagnia Italiana di Assicurazioni Generali sulla Vita dell'Uomo in Milano (1863). *Garanzie, capitale d'azioni di garanzia. Dotazioni mutue e garantite. Impiego dei Fondi.* [commercial pamphlet]. - Milano: Reale Compagnia Italiana di Assicurazioni Generali sulla Vita dell'Uomo, 1863. - [4], 43 + folding plate (form) pages. [RKN: 43733]
Prospectus for life assurance marketed in Italy -- Date of publication inferred as circa 1863

Reboul, E (1865). *Assurances sur la vie.* - 5th ed. [book]. - Paris: 1865. [RKN: 4839]

Reboul, E (1871). *Le nouvel impôt sur les assurances note suivie de la partie de l'exposé des motifs et du projet de loi qui est relative aux assurances..* [pamphlet]. - Paris: 1871. [RKN: 40430]

Reboul, Eugene (1867). *La morale de l'assurance.* [pamphlet]. - Paris: 1867. [RKN: 40620]

Reboul, Eugene (1871). *The duty of life assurance: / translated by W Sutton Gover.* [pamphlet]. 1871. [RKN: 41008]

Record, Robert (1510?-1558) (1557;1969 reprint). *The whetstone of witte, whiche is the seconde parte of arithmetike: containyng the extraction[sic] of rootes: the cossike practise, with the rule of equation: and the woorkes of surde numbers: The English Experience: its record in early printed books published in facsimile, no 142.* [facsimile reprint]. - London; Amsterdam: Jhon Kyngstone. Theatrum Orbis Terrarum Ltd, 1557;1969 reprint. - [320] pages. [RKN: 12616]

Record, Robert (1510?-1558); Mellis, John; Hartwell, Robert (1654). *Record's Arithmetick, or The Ground of Arts, teaching the perfect work and practice of Arithmetick, both in whole Numbers and Fractions, after a more easie and exact form then in former time have been set forth: made by Mr Robert Record, D. in Physick: Afterward augmented by Mr John Dee: And since enlarged with a Third Part of Rule of Practice [...] By John Mellis: And now diligently presued, corrected, illustrated and enlarged ...and New Tables of Interest, after 10 and 8 per 1000 with the True Value of Annuities to be bought and sold, present, respited or in Reversion: The First calculated by R C but corrected, And the latter diligently calculated by Ro. Hartwell, Philomathemat.* [book]. - London: Printed by James Flesher, 1654. - [24], 629 pages. [RKN: 20235]

Concise Dictionary of National Biography (1992) records edition of 1540. -- The 1618 edition was first to include compound interest, containing only two brief tables of compound interest taken from Simon Stevin, L'Arithmetique, 1585 -- The 1632 ed includes standard compound interest functions, including one which is erroneous

Reddie, John (1828). *A letter to the Lord High Chancellor of Great Britain on the expediency of the proposal to form a new civil code for England.* [pamphlet]. - London: J & W T Clarke, 1828. - 100 pages. [RKN: 70748]

The Register: A family and economic journal of provident institutions. [book]. 1853-1855. - 2 vols. [RKN: 8562]

Registrar General (1831). *Population. Comparative account of the population of Great Britain in the years 1801, 1811, 1821 and 1831; with the annual value of real property in the year 1815; also a statement of progress in the inquiry regarding the occupations of families and persons, and the duration of life, as required by the Population Act of 1830.* [book]. - London: 1831. [RKN: 3303]

Registrar General (1839-1869). *Annual report of births, deaths, and marriages in England.* [report]. 1839-1869. [RKN: 8783]

Registrar General (1845). *Sixth annual report of births, deaths, and marriages in England.* [corporate document]. 1845. [RKN: 62661]
Spine also reads: English life table no.1

Registrar General (1849). *Eighth and ninth annual reports of births, deaths, and marriages in England.* [corporate document]. 1849. [RKN: 62662]
Spine also reads: Farr, on Northampton table -- Both reports dated 1849

Registrar General (1868-1900). *Annual report of births, deaths, and marriages in England (Abstracts)*. [journal]. 1868-1900. [RKN: 8785]

Shelved by code, not by Command Paper Number.

Registrar General for Scotland (1880). *Monthly return of the births, deaths, and marriages registered in the eight principal towns of Scotland with the causes of death at four periods of life*. [book]. 1880. [RKN: 62660]

Registrar-General, Scotland (1857-1940). *Annual report of the Registrar-General of the births, deaths and marriages in Scotland*. [report]. - Edinburgh: General Register Office for Scotland, 1857-1940. [RKN: 60381]

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Sharman, H Riseborough (1859). *Life assurance leaflets.* [book]. - London: G J Stephenson, 1859. - viii, 32, 32, 55, 32, 7, 6, 13, 15 pages. [RKN: 42850]
Collected articles originally issued as separate leaflets in Leisure Hour magazine.

Sharman, H Riseborough (1860). *Have you insured your life? If not, why not?: (Life assurance leaflets; no. 5).* [pamphlet]. - London: G J Stevenson, 1860. - 7 pages. [RKN: 71006]
Institute Library also holds collected Life insurance leaflets by H Riseborough Sharman, numbers 1-7 [RKN: 42850]

Sharman, H Riseborough (1863). *Why should I insure my life? Arguments for agents, and serious considerations for the uninsured: (Life assurance leaflets; no. 9).* [book]. - London: G J Stevenson, 1863. - 21 pages. [RKN: 71532]

Sharp, Granville (1852). *The prize essay on the application of recent inventions collected at the Great Exhibition of 1851, to the purposes of practical banking.* [pamphlet]. - London: 1852. [RKN: 40109]

Shattuck, Lemuel (1846). *Report to the committee of the city council appointed to obtain the census of Boston for the year 1845, embracing collateral facts and statistical researches, illustrating the history and condition of the population, and their means of progress and prosperity: Palfrey, John G: Statistics of the condition and products of certain branches of industry in Massachusetts, for the year ending April 1, 1845. Prepared from the returns of the assessors.* [book]. - Boston MA (USA): 1846. [RKN: 9299]
Spine lettering: Statistics of Massachusetts & Census of Boston

Shaw, G J (1853). *On the law of partnership.* [pamphlet]. - London: 1853. [RKN: 40790]

Shaw, George Bernard (1894;2010 reprint). *Mrs Warren's Profession: With the author's apology*. [book]. Watchmaker Publishing, 1894;2010 reprint. [RKN: 43731]

Play written in 1894, set in 1893, noted for character Vivie, daughter of Mrs Warren, who seeks to support herself through work at 'actuarial calculations' for insurance long before women were allowed to take actuarial exams or join the Institute of Actuaries or Faculty of Actuaries. Without her knowledge her mother's profession running a brothel has supported her education.

Sheppard, George (1855). *Life assurance in theory and practice*. [pamphlet]. - Hamilton: 1855. [RKN: 40617]

Sheppard, W F (1898). *On the application of the theory of error to cases of normal distribution and normal correlation*. [pamphlet]. - Cambridge: 1898. [RKN: 42211]

Collected papers: Statistical theory from Edinburgh Royal Scientific Institution 1922-1936

Sheppard, W F (1899). *A method for extending the accuracy of certain mathematical tables*. [pamphlet]. - London: 1899. [RKN: 42019]

Collected papers: Papers on interpolation, etc 1899-1933

Sheppard, W F (1900). *On the calculation of the double-integral expressing normal distribution*. [pamphlet]. - Cambridge: 1900. [RKN: 42210]

Collected papers: Statistical theory from Edinburgh Royal Scientific Institution 1922-1936

Sheppard, William Fleetwood (1900). *On the tabulation of certain frequency distributions*. [journal article]. 1900. [RKN: 42189]

Philosophical Magazine (1900)

From the *Philosophical Magazine*, October 1900 -- Collected papers: Statistical theory 1899-1917

Sherwin, Henry; Briggs, Henry; Wallis, John; Halley, Edmund; Sharp, Abraham (1717;1705). *Mathematical tables, Contrived after a most comprehensive method; Viz... With their Construction and Use*. - [1st] ed. [book]. - London: R and W Mount and T. Page, 1717;1705. - 1 vols. - [2] 64, [304], 36 pages. [RKN: 20241]

This edition printed with title page date 1717, overwritten as 1705. -- 1st edition published 1705 - reissued with change of title page date 1706 -- 2nd edition 1726; 3rd edition 1741 (edited by William Gardiner); 4th edition 1761 -- Library holds this flawed 1st edition and 4th edition 1761

Short, Thomas (1750). *New observations, natural, moral, civil, political and medical, on city, town and country bills of mortality. To which are added, large and clear abstracts of the best authors who have wrote on that subject with an appendix on the weather and meteors*. [book]. - London: 1750. [RKN: 3820]

Short, Thomas (1767). *A comparative history of the increase and decrease of mankind in England, and several countries abroad*. [book]. - York: Printed for W Nicoll and C Etherington, 1767. [RKN: 2147]

Short, Thomas; Wall, Richard (1767;1973 reprint). *A comparative history of the increase and decrease of mankind in England, and several countries abroad*. - Pioneers of demography. [facsimile reprint]. - Westmead, Farnborough: Gregg International, 1767;1973 reprint. - [12], 213 pages. [RKN: 42985]

Institute Library holds original edition of 1767 - see RKN 2147

Shortrede, Robert (1849). *Logarithmic tables containing logarithms to numbers from 1 to 120,000; numbers to logarithms from .1 to 1.00000 to seven places of decimals; tables with centesimal and decimal arguments for finding logarithms and anti-logarithms as far as sixteen and twenty-five places*. [book]. - Edinburgh: 1849. [RKN: 1439]

Shortrede, Robert (1858). *Logarithmic tables to seven places of decimals, containing logarithmic sines and tangents to every second of the circle, with arguments in space and time, and MS notes by the author*. [book]. - Edinburgh: 1858. [RKN: 1440]

Shortrede, Robert (1864). *Traverse tables to five places for every 2 of angle up to 100 of distance*. [book]. - Edinburgh: 1864. [RKN: 1441]

Sieveking, E H (1874). *The medical adviser in life assurance*. [book]. - London: 1874. [RKN: 4990]

Signet Writers Widows Fund; Thomson, William Thomas (1873). *Further report with reference to the septennial investigation of the Writers to the Signet Widows' Fund, as at Whitsunday 1872*. [corporate document]. - Edinburgh: 1873. - 18 pages. [RKN: 71054]

Signet Writers Widows Fund; M'Candlish, J M (1886). *Report on the widows' fund of the Writers to Her Majesty's Signet, as at Whitsunday 1886*. [corporate document]. 1886. - 21 pages. [RKN: 71055]

Signet Writers' Widows Fund; Deuchar, D (1893). *Actuary's report on the widows' fund of the Writers to Her Majesty's Signet, septennial investigation as at Whitsunday 1893*. [corporate document]. - Edinburgh: T and A Constable [printers], 1893. - 25 pages. [RKN: 71289]

Simpson, Thomas (1740). *Essays on several curious and useful subjects, in speculative and mix'd mathematicks*. [book]. - London: Printed by H Woodfall, jun for J Nourse, 1740. - - pages. [RKN: 786]

Simpson, Thomas (1740;1792). *The nature and laws of chance*. [book]. - London: printed by Edward Cave, 1740;1792. - [2],iv,85,[1] pages. [RKN: 1673]

Another 1792 edition is bound in Tracts volume 26 -- At the back of the 1792 edition is "Of the laws of chance, or, a method of calculation of the hazards of game", 4th edition, 1738, revised by John Ham

Simpson, Thomas (1742). *The doctrine of annuities and reversions, deduced from general and evident principles; with useful tables, shewing the values of single and joint lives, etc, at different rates of interest. To which is added, a method of investigating the value of annuities by approximation, without the help of tables.* - [1st] ed. [book]. - London: 1742. - viii, 128; [2], 16; 88 pages. [RKN: 20057]
Institute Library holds 1st (1740) and 2nd (1775) editions -- Featured in 'Some Landmarks in Actuarial Science', exhibition, November 1985

Simpson, Thomas (1752). *Select exercises for young proficients in the mathematics.* [book]. - London: 1752. [RKN: 4468]

Simpson, Thomas (1757). *Miscellaneous tracts on some curious and very interesting subjects in mechanics, physical-astronomy, and speculative mathematics, wherein, the precession of the Equinox, the nutation of the Earth's axis, and the motion of the moon in her orbit, are determined.* [book]. - London: 1757. [RKN: 787]

Simpson, Thomas (1767;1775). *A treatise of algebra. Wherein the principles are demonstrated, and applied in many useful and interesting enquiries and in the resolution of a great variety of problems of different kinds. To which is added, the geometrical construction of a great number of linear and plane problems, with the method of resolving the same numerically.* [book]. - London: 1767;1775. [RKN: 915]

Third edition revised: 1767 AN:1214 -- Fourth edition revised: 1775 AN:1215 -- Faculty holds third edition (1767) only

Simpson, Thomas (1775). *The doctrine of annuities and reversions, deduced from general and evident principles: with useful tables, shewing the values of single and joint lives, etc at different rates of interest. To which is added, a method of investigating the value of annuities by approximation, without the help of tables.* - 2nd ed. [book]. - London: printed for John Nourse, 1775. - viii, 144 pages. [RKN: 13251]
Institute Library holds 1st (1740) and 2nd (1775) editions

Simpson, Thomas (1791). *A supplement to the doctrine of annuities and reversions, deduced from general and evident principles: containing the valuation of annuities and reversions, for single and joint lives; with the necessary tables.* [pamphlet]. - London: Printed for F Wingate, 1791. - 88 pages. [RKN: 70660]

Simpson, Thomas (1792). *The nature and laws of chance.* [book]. - London: printed by Edward Cave, 1792. - [2],iv,85,[1] pages. [RKN: 41327]
Library holds [1st] (1740) and 2nd (1792) editions -- At the back of the 1792 edition is "Of the laws of chance, or, a method of calculation of the hazards of game", 4th edition, 1738, revised by John Ham -- Originally entered under 1673

Simpson, Thomas (1792). *The nature and laws of chance.* [pamphlet]. - London: 1792. - 95 pages. [RKN: 70661]

Simpson, Thomas (1823). *The doctrine and application of fluxions containing a number of new improvements in the theory; and the solution of a variety of new and very interesting problems, in different branches of the mathematics.* - New ed. [book]. - London: 1823. - 2 vols. [RKN: 1108]
2 volumes

Sinclair, J (1885). *Classification of fire risks.* [pamphlet]. - Melbourne: 1885. [RKN: 40364]

Sinclair, James (1816). *The Code of Health & Longevity.* - 3rd ed. [book]. 1816. [RKN: 43119]
Equitable Life Assurance Society archive reference EL934B

Sinclair, John (Sir) (1798). *The statistical account of Scotland: Drawn up from the communications of the ministers of of the different parishes.* - 1st ed. [book]. - Edinburgh: Printed and sold by William Creech..., 1798. - 21 vols. [RKN: 20242]
Institute Library set held at Faculty Library

Sir Ralph Abercromby Friendly Society; Meikle, James (1866). *Report on the affairs of the Sir Ralph Abercromby Friendly Society as at 31st December 1865.* [corporate document]. - Edinburgh: 1866. - 12 pages. [RKN: 70766]

Sir Ralph Abercromby Friendly Society; Meikle, James (1872). *Report on the affairs of the Sir Ralph Abercromby Friendly Society and Lodge No. 3456 of the Independent Order of Oddfellows [Manchester Unity] as at 31st December 1870.* [corporate document]. - Edinburgh: Shirley & Harkness [printers], 1872. - 16 pages. [RKN: 70339]

Skirving, James; Edinburgh Journeymen Goldsmiths Society (1825). *Report...upon the following queries submitted to him by the Edinburgh Journeymen Goldsmiths' Society.* [corporate document]. - Edinburgh: P Neill [printer], 1825. - 8 pages. [RKN: 70676]

Slater, D M (1893). *Life assurance in India: its origin and development.* [pamphlet]. - Bombay: 1893. - 30, 8 pages. [RKN: 71142]

Smart, Andrew (1866). *Reports to the Lord Provost and Magistrates of the City of Edinburgh on the pathological appearances, symptoms, treatment and means of preventing cattle plague: With 22 coloured lithographs and analytical tables of one hundred dissections.* [pamphlet]. - Edinburgh: MacLachan & Stewart, 1866. - 46 (+ 4 plates) pages. [RKN: 71078]
Reports followed by a letter from the author to the Lord Provost and Magistrates of Edinburgh on the subject of Rinderpest preventives and the liability of sheep to the disease

Smart, John (1726). *Tables of interest, discount, annuities, &c.* - 2nd ed. [book]. - London: Printed by J Darby and T Browne, 1726. - [8], 123, [1] pages. [RKN: 4424]

One copy (AN 31773) has 45 + [2, 2] additional pages in manuscript, verified as in the hand of John Smart - see separate catalogue record 43201 -- One copy (AN has additional pages bound in: "A Scheme of the Proportions the several counties in England paid to the Land Tax in 1693 and to the Subsidies in 1697 compared with the number of Members then sent to Parliament ... calculated by John Smart at the Town Clerks Office London" (ca. 1745) inserted before John Smart's Tables... 1726; and "An Account of the Number of Persons Dying at the several Ages undermentioned... of the Number of Persons Dying in every Seven Years Current... of Persons Buried in Ten Years past as published by the Company of Parish Clerks, in the Yearly Bills of Mortality viz." [years 1728-1737] and "A Table shewing the Probabilities of Life, by Observations made from the Bills of Mortality in London. By John Smart, Gent.

Smart, John (1726). *Tables of interest, discount, annuities, &c [with manuscript additions]*. - 2nd ed. [book;manuscript]. - London: Printed by J Darby and T Browne, 1726. - [8], 123, [1] + [1] 45, [2], [2] p. manuscript pages. [RKN: 43201]

This copy (AN 31773) has [1], 45 + [2, 2] additional pages in manuscript, most verified as in the hand of John Smart - see separate catalogue record 43201 -- Inserted letter to A W Evans, dated 27 February 1948, outlines research of Corporation of London records which verify that manuscript pages 1-44 are written by John Smart; pages 45 + [2] are in another hand (on mortality data for years 1742-1771 after John Smart died in November 1742. -- Library has 4 other copies of the printed book - see catalogue record 44

Smart, John (1735). *Tables of interest, etc. Abridged for the use of schools.* [book]. - London: 1735. [RKN: 4423]
Faculty copy dated 1736

Smart, John (1738). *A letter from Mr Smart to George Heathcote Esq, re inclosing tables extracted from ye Bills of Mortality for the last ten years, and from them shewing the probabilities of life, in order to estimate annuities &c..* [manuscript facsimile]. 1738. [RKN: 3840]
Manuscript letter read at the Royal Society in 1738 -- Features in S Haberman and T A Sibbett (ed), History of actuarial science, v. I -- Featured in 'Some Landmarks in Actuarial Science', exhibition, November 1985

Smart, John (1738). *A letter from Mr Smart to George Heathcote Esq, re inclosing tables extracted from ye Bills of Mortality for the last ten years, and from them shewing the probabilities of life, in order to estimate annuities &c.* [manuscript facsimile]. 1738. [RKN: 40013]
Manuscript letter read May 1738 -- Features in S Haberman & T A Sibbett (ed) History of actuarial science (1995), v.I -- Featured in 'Some Landmarks in Actuarial Science', exhibition, November 1985

Smart, William (1891). *An introduction to the theory of value on the lines of Menger, Wieser, and Bohm-Bawerk.* [book]. - London: Macmillan, 1891. - vi, [ii], 88, [2], 44p publ cat pages. [RKN: 6420]

Smedley, Edward, Rose, Hugh James and Rose, Henry John. (Editors) (1849). *Annuities (Encycloaedia Metropolitana; volume XIV) Universal Dictionary of Knowledge.* [pamphlet]. - London: 1849. [RKN: 40915]

Smee, A (1839). *On the formation of moulding tablets for fractures, etc.* [pamphlet]. - London: 1839. [RKN: 40565]

Smee, A (1840). *On the Ferrosesquicyanuret of Potassium.* [pamphlet]. - London: 1840. [RKN: 40564]

Smee, A (1840). *On the galvanic properties of the principle elementary bodies, with a description of a new chemico-mechanical battery.* [pamphlet]. - London: 1840. [RKN: 40566]

Smee, A (1840). *On the production of electrolytes.* [pamphlet]. - London: 1840. [RKN: 40567]

Smee, A (1840). *On the structure of normal and adventitious bone.* [pamphlet]. - London: 1840. [RKN: 40568]

Smith, Adam (1761). *An inquiry into the nature and causes of the wealth of nations: With a life of the author, an introductory discourse, notes and supplemental dissertations.* - 5th ed. [book]. - Edinburgh: Adam and Charles Black [etc.], 1761. - lxvi, 685: ill.port. ; 23 cm pages. [RKN: 70882]

Smith, Adam (1784). *An inquiry into the nature and causes of the wealth of nations.* - 3rd ed. [book]. - Edinburgh: W Strahan and T Cadell, 1784. - 3 vols. [RKN: 6487]

Smith, Adam (1796). *An inquiry into the nature and causes of the wealth of nations.* - 8th ed. [book]. - London: 1796. - 3 vols. [RKN: 6488]

Smith, Adam (1809). *An inquiry into the nature and causes of the wealth of nations.* - 4th ed. [book]. - Edinburgh: 1809. - 3 vols. [RKN: 6486]

Smith, Frederick G (1837). *Observations on life assurance: illustrative of the many important benefits resulting to society from its practice: To which is added a brief outline of the Scottish Union Assurance Corporation.* [pamphlet]. 1837. - 44 pages. [RKN: 70911]

Smith, H A (1863). *On a table indicating the annual premium from the single and vice versa.* [pamphlet]. 1863. - 4 pages. [RKN: 70787]

Smith, H A (1881). *Annual and single endowment assurance premiums - Institute of Actuaries Hm 3 per cent.* [pamphlet]. - London: 1881. [RKN: 40322]

Smith, H J (1885). *Fire surveys.* [pamphlet]. - Melbourne: 1885. [RKN: 40365]

Smith, J T (1870). *On the methods of computing the comparative values of gold and silver in India.* [pamphlet]. 1870. [RKN: 40366]

Smith, J T (1876). *Silver and the Indian Exchanges; a remedy for its depreciation, in three essays, submitted to the Secretary of State for India in Council.* [pamphlet]. - London: 1876. [RKN: 40367]

Smithson, Peter (1764;1765). *Course of the Exchange &c, London, Tuesday January 3, 1764 [- Tuesday, December 31, 1765].* [book]. - London: Published Tuesdays and Fridays by Peter Smithson, broker, and the sister of the late John Castaing, 1764;1765. - 1 vols. - [203] (of 207 issues) pages. [RKN: 43198]

Original published as separate list sheets, here collected as volume of stock listings for years 1764 to 1765. -- Peter Smithson followed Richard Shergold in 1764 as compiler of the listing originated by John Castaing in 1698. -- Twice-weekly issued lists record in tabular form a variety of financial data, including prices of money, precious metals, commodities, stocks and bonds, lottery tickets, annuities, assurances and other financial instruments

Smithsonian Institution. Board of Regents (1873). *Annual report showing the operations, expenditures, and condition of the Institution for the year 1871.* [book]. - Washington DC (USA): Government Printing Office, 1873. - 473 pages. [RKN: 15494]

Smithsonian Institution. Board of Regents (1874). *Annual report showing the operations, expenditures, and condition of the Institution for the year 1873.* [book]. - Washington DC (USA): Government Printing Office, 1874. - 452 pages. [RKN: 15517]

Smyth, E (1860). *A manual of interest and annuities, comprising a popular explanation of the solution of questions of compound interest and annuities for years; with an auxiliary table for fifty-four rates of interest; also the values of life annuities by the English life tables; and an appendix containing suggestions for the more equitable assessment of the income tax.* [book]. - London: 1860. [RKN: 4343]

Smyth, E (1870). *On the enfranchisement of copyholds of inheritance.* [pamphlet]. - London: 1870. [RKN: 40323]

Sneath, A W (1898). *Fire policy conditions.* [book]. - Leeds: 1898. [RKN: 6196]
Also bound in: Life assurance tracts, volume 8

Snoer, M G (1875). *Lijfrente en Levensverzekering.* [pamphlet]. - Amsterdam: 1875. [RKN: 40494]

Snow, Edwin M (1859). *Report on the Small Pox in the city of Providence, from January to June 1859.* [pamphlet]. - Providence RI (USA): 1859. [RKN: 40721]

Societe d'Assurance Mutuelle Contre la Grele (1819). *Ordonnance du roi.* [corporate document]. 1819. [RKN: 40639]

Society for Equitable Assurances (1801). *The Deed of Settlement of the Society for Equitable Assurances with the bye laws of the Society: And three addresses delivered at three different general courts of the society, by Mr Morgan, the Actuary.* [corporate document]. - London: printed by Bye and Law, 1801. - vii,[1],170 + 23 pages. [RKN: 12140]

Society for Equitable Assurances (1811). *Deed of Settlement,.... with the bye-laws of the Society, and four addresses... by Mr. Morgan, the Actuary.* [corporate document]. - London: 1811. [RKN: 9939]
Addresses dated 1793, 1795, 1800, 1809, 1816, on pages 115, 133, 149, 171, 189

Society for Equitable Assurances (1817). *A short account of the Society for Equitable Assurances on lives and survivorships, established by deed, inrolled in his Majesty's Court of King's Bench at Westminster.* [corporate document]. - London: Printed by J Bryan & Son, 1817. - 20, [2] pages. [RKN: 42978]

Society for Equitable Assurances (1820). *The Deed of Settlement of the Society for Equitable Assurances on Lives and Survivorships, with the bye-laws of the Society, and six addresses delivered at six different general courts of the Society by Mr Morgan, the Actuary.* [corporate document]. 1820. [RKN: 9027]

Society for Equitable Assurances; Morgan, William (1833). *The Deed of Settlement of the Society for Equitable Assurances on Lives and Survivorships, as the same is inrolled in His Majesty's Court of King's Bench at Westminster in the year 1765; with the bye-laws and orders: To which are appended reports by the court of directors, and nine addresses by William Morgan Esq., F.R.S., late Actuary of the Society.* [corporate document]. - London: Printed by Richard Taylor, 1833. [RKN: 20109]

'Nine Addresses' by William Morgan, Actuary (1775-1830) delivered at a General Court holden 7th May, 1793; 3rd December 1795; 24th April, 1800; 7th December, 1809; 5th December, 1816; 2nd December, 1819; 3rd March, 1825; 3rd December, 1829; and, 2nd December 1830 -- Library also holds 1811 edition with four addresses by William Morgan to date.

Society for Equitable Assurances; [Morgan, Arthur] (1834). *Tables showing the total number of persons assured in the Equitable Society from its commencement in September 1762 to 1st January 1829.* [corporate document]. - London: 1834. [RKN: 2865]
Bound with: Report Select Committee on Life Annuities 1829, Select Committees on Friendly Societies 1825 1827

Society for Equitable Assurances (1850). *A short account of the Society for Equitable Assurances on lives and survivorships, established by deed,* [corporate document]. - London: Printed by Richard and John E Taylor, 1850. - 24 pages. [RKN: 70899]

Society for Equitable Assurances (1854). *Equitable Society. Reports made on various occasions by the Court of Directors.* [corporate document]. - London: Printed by Taylor & Francis, 1854. [RKN: 8131]

Society for Equitable Assurances (1854). *Equitable Society. Reports made on various occasions by the court of directors.* [corporate document]. 1854. [RKN: 8561]

Society for Equitable Assurances (1881). *The Deed of Settlement of the Society for Equitable Assurances on Lives and Survivorships with the bye-laws and orders.* [corporate document]. - London: 1881. [RKN: 8130]
Revised edition; first published 1854

Society for Equitable Assurances on Lives and Survivorships (1783). *A short account of the Society for Equitable Assurances, etc.* [corporate document]. - London: 1783. - 25 pages. [RKN: 20097]

Society for Equitable Assurances on Lives and Survivorships; Morgan, William (1793). *Address delivered by the Actuary to the Members of the Society for Equitable Assurances on Lives and Survivorships, at a General Court holden the seventh of March, M DCC XCIII.* [corporate document]. 1793. [RKN: 40941]

Society for Equitable Assurances on Lives and Survivorships (1795). *[Life insurance policy: no. 15411 and premium payment receipt]*. [manuscript]. - [England]: 1795. - 1 + 1 pages. [RKN: 43177]

Policy issued on the life of his wife Jane Wade for the period of eighteen months assuring £4000 payable to Robert Wade at a premium of 82 pounds and 1 shilling. -- Acquired separately, not part of Archive of the Equitable Life Assurance Society.

Society for Equitable Assurances on Lives and Survivorships; Morgan, William (1800). *Address to the Members of the Society for Equitable Assurances on Lives and Survivorships, at a General court holden the twenty-fourth of April, M.DCCC.* [corporate document]. 1800. [RKN: 40980]

Society for Equitable Assurances on Lives and Survivorships; Morgan, Arthur (1837). *Observations on the operation of the bye-law of the 19th December, 1816, upon the present prospective interests of new assurers, with supplement.* [corporate document]. - London: 1837. [RKN: 40538]

Society for the Diffusion of Useful Knowledge (1833). *The Penny Cyclopaedia.* [encyclopedia]. - London: Charles Knight, 1833. - 27 vols. [RKN: 9875]

Society of Booksellers and Stationers in Edinburgh, Leith and Suburbs Widows Fund; Peddie, Donald Smith (1849). *Report on the affairs of the widows' fund scheme of the Society of Booksellers and Stationers in Edinburgh, Leith and suburbs.* [corporate document]. - Edinburgh: 1849. - 12 pages. [RKN: 70768]

Society of Engineers and Machinists (1830). *The rules and regulations of the society..* [corporate document]. - London: 1830. [RKN: 40376]

Society of Writers to the Signet (1824). *Report of the committee of the Society of Writers to the Signet appointed to consider.....an act for the better regulating of the forms of process in the courts of law in Scotland.* [corporate document]. - Edinburgh: 1824. [RKN: 70740]

Some observations upon the present state of banking. [pamphlet]. 1840. - 72, 3 pages. [RKN: 70945]

Some observations upon the present state of banking. [pamphlet]. 1841. - 72 pages. [RKN: 70956]

Some observations upon the present state of banking, to which is added a letter addressed to a member of the Committee of the House of Commons on banks of issue. [pamphlet]. - Edinburgh: Johnstone and Fairly [printers], 1841. - 94 pages. [RKN: 70949]

Sommer, James van (1848). *Tables exhibiting the various fluctuations in three per cent consols, in every month during each year from 1789 to 1847 inclusive: To which are annexed the amounts and rate of interest of all the loans contracted since 1788, and the amount of Navy Victualling and Exchequer Bills funded.* [book]. - London: Smith, Elder, 1848. - 149 [and printed, unpaginated folio inserts for 1848 and 1849] pages. [RKN: 12073]

Soper, George Isabell (1846). *On the life assurance offices: their national and social advantages, their principles and practice.* [pamphlet]. - London: W S Pateman, 1846. - [16] pages. [RKN: 40114]

Sorley, James (1896). *The evolution of premium rates: A chapter in the history of life insurance.* [pamphlet]. 1896. 22 p. [RKN: 62681]

South African Mutual Life Assurance Society (1893). *47th annual report of directors with actuarial report and statements, as at 30th June 1892.* [corporate document]. - Cape Town: Van de Sandt de Villiers & Co [printers], 1893. - 26 pages. [RKN: 71419]

South African Mutual Life Assurance Society; Gordon, C (1896?). *Report on the mortality experience of the South African Mutual Life Assurance Society for the fifty years 1845 to 1895.* [corporate document]. - Cape Town: 1896?. [RKN: 2904]

South Australia [Life Assurance Companies Act 1882]: South Australia [Life Assurance Companies Act - Amendment 1885]: South Australia [Policies Protection Act 1887]. [pamphlet]. 1882;1885;1887. [RKN: 71169]

[South Sea Bubble] (1721;1762 reprint). *The Bubbles Mirrour: or Englands Folly.* [poster]. - London: Printed for Carington Bowles, ... St. Pauls Church Yard, 1721;1762 reprint. - 1 (34 x 26 cm) pages. [RKN: 43208]

Engraved broadside with central mezzotint and etched vignettes, [n.d., c.1762.] Satire on the South Sea Bubble; a man weeps holding up his cloak and handkerchief; above is an emblematic scene and below a coat of arms. On all sides engraved text giving a 'List of Bubbles' including: 'Insurance on Lives', 'Insurance on Horses' 'Royal Assurance', 'London Assurance' 'Rose insurance from Fire', 'Insurance on Ships &c', 'Lending Money on Bottom-Ree' [marine insurance]. -- This plate was first issued by Thomas Bowles in 1720; this impression from a re-worked and re-issued state on laid paper, by his successor Henry Carington Bowles (1724 - 1793). It is the second of a pair: the first depicting optimistic figure investing funds in the scheme in hope of profitable returns; this second depicts a sorrowful figure impoverished by his losses. The epigram on each 'bubble' matched text also featured in a set of playing cards issued at the same time. -- The plate had first appeared in the illustrated Crowle, Pennant's 'Some Account of London', Part XII, No.139 -- The South Sea Company was a British joint stock company that traded in South America during the 18th century. Founded in 1711, the company was granted a monopoly to trade in Spain's South American colonies as part of a treaty during the War of Spanish Succession. In return, the company assumed the national debt England had incurred during the war. Speculation in the company's stock led to a great economic bubble known as the South Sea Bubble in 1720, which caused financial ruin for many.

[South Sea Company] (1720). *Remarks on the celebrated calculations of the value of South-Sea stock, in "The Flying Post" of the 9th of April, 1720. Paragraph by paragraph. In order to remove the aspersions thereby cast on the present contract with that Company, to the great discouragement of the new subscribers.* [pamphlet]. - London: Printed for J Roberts, 1720. - 31 pages. [RKN: 10042]
Pamphlet extract disbound

[South Sea Company] (1720). *The schemes of the South-Sea company and the Bank of England as propos'd to the Parliament for the reducing of the national debts.* [pamphlet]. - London: Printed for W Castle, 1720. - 10 pages. [RKN: 10043]
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[Tontine (France)] (1792). *Tontines immobilières, ou administration générale de ventes d'immeubles & acquisitions en tontines-proprétaires: d'emprunts immobiliers & tontines viagères; de ventes on lotteries, et d'agence: établie par brevet d'invention du 25 avril 1792.* [pamphlet]. - Paris: De l'Imprimerie de l'administration des Tontines Immobilières, 1792. - 1 vols. - 12 pages. [RKN: 43216]

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'Books were opened at different offices, on that day, and continued three mons; since which fines in proportion to the lapses of tome have been, and are to be paid by those who become Members of the Society, till the 21st, 1791, when the books will be closed, and no more subscribers admitted - p.1 -- Pamphlet makes reference to 'the assistance of the following statements, drawn from the 6th Table of Dr [Richard] Price on annuities, being a table of the Probabilities of Life at Northampton; which table is selected in preference to that of "The Probabilities of Life in London"...'

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[Walford, Cornelius] (1874). *Fire and life assurance companies of New York: Banquet in honour of Cornelius Walford, of London, at Delmonico's, 5th Avenue & 14th Street, October 22, 1874*. [pamphlet]. - New York NY (USA): 1874. [RKN: 40277]

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1st edition published 1857. -- Library holds 3rd (1900), 4th (1901), 5th (1912) and 6th (1922) editions -- 3rd edition by A W Tarn, with articles on accident insurance by C H Green and on fire insurance by C E Noverre -- Originally entered under 4843

Wallace, Robert (1753). *A dissertation on the numbers of mankind in ancient and modern times, in which the superior populousness of antiquity is maintained. With an appendix, containing additional observations on the same subject and some remarks in Mr Hume's political discourse, of the populousness of ancient nations*. [book]. - Edinburgh: printed for G Hamilton and J Balfour, 1753. - iv,331 pages. [RKN: 2584]

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The second edition with corrections and additions by the author - t.p. -- 1st edition published 1758. -- (Reprints of economic classics). -- Reprint of second edition published by Augustus M Kelley, New York, 1969.

Wallace, William (1808). *New series for the quadrature of the conic sections, and the computation of logarithms*. [book]. - Edinburgh: 1808. [RKN: 1052]

Wallace, William; Wallace, A (1833). *Calculations by which tables of annuities on male and female life were computed from the probabilities of life contained in the report made to the House of Commons in 1829, by John Finlaison*. [manuscript]. 1833. - 129 p. of tables pages. [RKN: 4635]

Wallace, William (1834). *Tables of the value of annuities on male and female lives, separately. From the probabilities of life in the parliamentary report on life annuities, 31 March 1829, deduced from observations by John Finlaison. Calculated for the Standard Life Assurance Office*. [manuscript]. 1834. [RKN: 4634]

Wallace, William (1837). *A geometrical treatise on the conic sections; with an appendix containing formulae for their quadrature*. [book]. - Edinburgh: Adam and Charles Black, 1837. - xvi, 208 ; 23 cm pages. [RKN: 70884]

Wallis, John (1685). *A Treatise of Algebra both historical and practical showing the original, progress and advancement thereof, from time to time, and by what steps it hath attained to the heighth at which now it is*. [book]. 1685. [RKN: 1013]

Wallsend Church (c1835). *Wall's End Church tontine [with] Table of Allowance upon deaths*. [pamphlet]. - Newcastle: Printed by John Hernaman, c1835. - [3] pages. [RKN: 43150]

This tontine appears to have been established before 1810 - the first printed recorded death on this paper was in January 1810. The printed text records deaths up to 1834 and had been updated in manuscript to 1849. Each of the four classes contained eighteen names: Lord Stowell was the last man standing in the fourth class, enjoying £51 p.a. from the death of the penultimate survivor in 1833 until his own death in 1836. The document offers a fascinating insight into a highly speculative transaction, now illegal. This copy is endorsed to the Rev. C Perigal; Susanne and Sarah Perigal were among the second class, both apparently still alive in 1851.

Walmesley, D C (1749). *Analyse des mesures des rapports et des angles: ou réduction des intégrales aux logarithmes et aux arcs de cercles*. [book]. - Paris: chez G F Quillau, 1749. [RKN: 41552]

Provenance: Francis Maseres Library; then Inner Temple Library -- Acquired from auction with Henry Briggs, Arithmetica logarithmica (English edition), 1631 - [RKN 20126] and 3 other items -- Possible for withdrawal from stock notwithstanding Francis Maseres former ownership -- Bought with Briggs [RKN: 1631] and subsequently sold

Walton, W G *Life assurance companies: their position and management: A first series of articles on expensively managed life offices, together with replies by certain companies*. [pamphlet]. - Manchester: [RKN: 40690]

Walton, W G ([1883]). *Actual results: American life insurance offices in Great Britain*. [book]. - Manchester: Cuthbertson and Black [printers], [1883]. - 24 pages. [RKN: 70493]

Walton, W G (1883). *The Equitable Life Assurance Society of the United States and the New York Life Insurance Company*. [pamphlet]. - Manchester: Cuthbertson and Black [printers], 1883. - 24 pages. [RKN: 71030]

Warcupp, Edmond; Graunt, John; Petty, William (1659). *Indenture, agreement between Edmund Warcup, William Petty, John Graunt and others relating to the bargain and sale of "All that Great Capital Mesuage and Tenement in One Garden... in the Parish of St Margaret in Lothbury, dated 8 March 1659"*. [manuscript]. - [London]: 1659. - 2 sheets + folding map pages. [RKN: 43059]

Inscribed on reverse: "The Counterpart of Mr Edm'd Warcup and his Trustees Grant and Lease to Dr Petty, Mr Graunt & Mr Martin and their Trustees. With a Plan and Survey of the Lothbury Estate." -- Property deed featuring the signed name of John Graunt and involvement of William Petty, at a time close to Graunt's first publication 'Natural and political observations on the Bills of Mortality' of 1662.

Ward, John (1710). *Clavis usurae; or a key to interest, both simple and compound*. [book]. 1710. [RKN: 4292]

Also contained in: Maseres, Francis (Editor): *Scriptores logarithmici*. London, 1804. Volume 5

Ward, John (1713). *The young mathematician's guide: Being a plain and easie introduction to the mathematicks: In five parts. Viz [...]*. - 2nd corr ed. [book]. - London: Printed for Tho. Horne [...], J. Woodward [...], and A Bettesworth, 1713. - [8], 451, [3] pages. [RKN: 40007]
1st ed. published 1706

Ward, R A (1852). *A treatise on investments: being a popular exposition of the advantages and disadvantages of each kind of investment, and of its liability to depreciation and loss*. - 2nd ed. [book]. - London: 1852. [RKN: 7466]

Wargent, Pehr (1766;1930 reprint). *Mortality in Sweden according to the "Tabell-Verket" (General Register Office)*. [translation reprint]. - [Sweden]: 1766;1930 reprint. [RKN: 40017]

First published in Transactions of the Royal Academy of Sciences 27 [Sweden], Stockholm 1766 -- Translation presented by the Thule Insurance Company at 9th International Congress of Actuaries (1930) -- Features in S Haberman & T A Sibbett (ed), History of actuarial science (1995)

Waring, Edward (1785). *Meditationes analyticae*. [book]. - Cambridge: 1785. [RKN: 959]

Waring's Miscellanea Analytica (1730;1762). *De Moivre, A: Miscellanea analytica de seriebus et quadraturis. London 1730: Waring, Edward: Miscellanea analytica, de aequationibus algebraicis, et curvarum proprietatibus. Cambridge 1762. [book]. 1730;1762. [RKN: 2776]*

Washburn, H S (1878). *A glance at the business of life assurance in Great Britain. London, October, 1877. [pamphlet]. - Boston: 1878. [RKN: 40304]*

Washburn, Henry (1879). *A sketch of the business of life-insurance in Germany. [pamphlet]. - Boston: 1879. [RKN: 41015]*

Washburn, Henry S (1879). *Something about the business of life assurance in France. [pamphlet]. - Boston: 1879. [RKN: 41014]*

Washington Life Insurance Company (1889). *Historical, actuarial and medical statistics. [corporate document]. - New York NY (USA): 1889. [RKN: 2961]*

Waterloo Life, Education, Casualty and Self-relief Assurance Company (1852). *An essay upon life assurance: especially illustrative of the original, important and universal advantages secured to the assured themselves ... by the system adopted and developed in the Waterloo Life, Education, Casualty and Self-relief Assurance Company. [corporate document]. - London: Printed by John Teulon, 1852. [RKN: 71061]*

Watkins, Thomas (1714;1965 reprint). *Rules for correcting the usual methods of computing amounts and present values by compound as well as simple interest, and of stating interest accounts. [journal article]. 1714;1965 reprint. [RKN: 43096]*
Philosophical Transactions [of the Royal Society] (facsimile) (1714) 29: 111-127.

Watkins, Thomas (1714). *Rules for correcting the usual methods of computing amounts and present values by compound as well as simple interest, and of stating interest accounts. [journal article]. 1714. [RKN: 43097]*
Philosophical Transactions of the Royal Society of London... Abridged (1714) 5(2): 243.

Watkins, Thomas (1717). *A Table of Redemption. Shewing at one view in what time the Principal and Interest of any Debt from three to six per cent. may be discharged, by any Fund producing yearly from three and a half to twelve per cent.: With other estimates and remarks relating to the present state of our Publick Debts. Humbly offer'd to the consideration of the honourable House of Commons / by T.W. F.R.S. [book]. - London: Printed by W Wilkins; and sold by J Roberts, 1717. - [1], 8 + [2 p. of tables] pages. [RKN: 4348]*

Watkins, Thomas (1761;1995 reprint). *A letter to the Rev Dr William Brakenridge, [...] F.R.S. concerning the term and period of human life: in which the inequalities in constructing, and the false conclusions drawn from Dr Halley's Breslau table are fully proved; the supposed extra-ordinary healthfulness of that place is particularly examined, and confuted; and its real state equalled by divers places in England; the imperfection of all the tables formed upon 1000 lives is shewn; and a method propoposed [sic] to obtain one better. [journal article;facsimile reprint]. 1761;1995 reprint. [RKN: 40015]*
Philosophical Transactions [of the Royal Society] (facsimile) (1761) 52: 46-70.
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Watson, James (1877). *Life assurance: where shall I get the most for my money?: Notes on a pamphlet with the above title, professing to be an impartial inquiry as to the advantages of different offices. [pamphlet]. - Edinburgh: Bell and Bradfute, 1877. - 20 pages. [RKN: 71026]*

Watson, Reuben (1878). *An explanatory treatise on the valuation of Friendly Societies. [book]. 1878. [RKN: 9829]*
Spine title: Friendly Society Finance

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Watson, Reuben (1888). *The fourth valuation of the lodges of the Manchester Unity. From 31 December 1884/1885/1886. Giving the number of members in each lodge and the rate of interest on which each valuation has been computed. [book]. - Nottingham: 1888. [RKN: 6058]*

Watson, Reuben (1893). *Independent Order of Oddfellows, Manchester Unity. Fifth valuation of the assets and liabilities of the lodges and of the district funeral funds, as at 31 December 1889/1890/1891, with report thereon, followed by brief comments on the position of each district. [book]. - Nottingham: 1893. [RKN: 6057]*

Watson, William (1890). *Central Association for dealing with distress caused by mining accidents: superannuation for miners. [pamphlet]. - Wigan: 1890. [RKN: 40991]*

A paper read before the Board of Management of the North Wales Miners' Permanent Relief Society, on October 18th, 1890

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Three reports bound in one volume entitled (on spine) *Glasgow Vital Statistics 1870-74* -- Faculty holds a second copy of report for 1870, published 1871, within Pamphlet files (miscellaneous) with volume titled on spine: *Assurance Pamphlets*

Watt, Alexander (1844). *The Glasgow bills of mortality for 1841 and 1842, drawn up by appointment and under the authority of the Lord Provost, magistrates and town council. [pamphlet]. - Glasgow: Edward Khull [printer], 1844. - 105 pages. [RKN: 71224]*

Watt, Alexander (1897). *Fire insurance: practical notes on leading cases. [book]. - London: Charles & Edwin Layton, 1897. - 91 pages. [RKN: 4822]*

Watt, Peter (1824). *Comparative tables of the rates of life assurance demanded in Scotland: With an exposition of the doctrine of life assurance and annuity: Shewing how the rates are calculated and the present value ascertained when claimed to be ranked on a bankrupt estate, or sold for their true value.* [book]. - Edinburgh: John Anderson Jun., 1824. - 35 ; 24 cm pages. [RKN: 70889]

Watt, Peter (1837). *Progress and present state of the science of life insurance, with thermometrical tables. Also, observations on health insurance etc.* [book]. - Edinburgh: John Anderson, 1837. - 80 pages. [RKN: 4478]

Watt, R (1848). *The principles of insurance applied to mercantile debts; a letter to Lord Ashburton.* [pamphlet]. - London: 1848. [RKN: 40508]

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Waugh, Benjamin; National Society for the Prevention of Cruelty to Children (1891). *The results of child-life insurance: a reply to an article in the Fortnightly Review, December 1890.* [corporate document]. - London: Kegan Paul, 1891. - 32 pages. [RKN: 71374]

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Webb, Benjamin (1762). *The complete annuitant. Consisting of tables of interest, simple and compound.* [book]. - London: Printed for the author, by J and W Oliver, 1762. - xiv,176 pages. [RKN: 4430]

Webb, William (1775). *Tables of products for performing multiplication and division of numbers with the greatest ease, certainty and dispatch: calculated for the use and relief of accountants, merchants, surveyors, mathematicians and all persons concerned in numbers.* [book]. - London: 1775. [RKN: 1375]

Weber, Hermann (1898). *Heredity in relation to life assurance: Presidential address delivered to the Life Assurance Medical Officers' Association, January 5th 1898.* [pamphlet]. 1898. - 16 pages. [RKN: 71189]

Webster, Alexander (1755). *An account of the number of people in Scotland in the year one thousand seven hundred and fifty five.* [typescript]. 1755. - 79 ; 39 cm pages. [RKN: 70858]

Webster, W (1755). *An essay on book-keeping, according to the true Italian method of debtor and creditor, by double entry wherein the theory of that excellent art is clearly laid down in a few plain rules; and the practice made evident and easy, by variety of intelligible examples.* - 12th ed. [book]. - London: 1755. [RKN: 8154]

Webster, William (1639). *Webster's Tables, for: Simple Interest direct at 10, 8, 7½, 7, 5 and 5 l. per centum, from moneth to moneth to twelve moneths. Simple Interest to rebate, at 8 l. per centum, from moneth to moneth to twelve moneths. Simple Interest to rebate, at 7 and 6 l. per centum, from moneth to moneth to twelve moneths.: Also, his Tables for Compound Interest, with his true valuation of Annuities, Leases, Fines and Reversions: with a necessary addition concerning halfe-yearly and quarterly payments: Together with a necessary Table for the speedy and exact summing up of the price of commodities: serving also for a table for reduction, and for simple interest direct at 5. per centum.* - The Fourth edition, with very large additions ed. [book]. - London: Printed by M Flesher for Nicholas Bourne, 1639. - 1 vols. - [56] pages. [RKN: 20270]

Library holds this fourth edition. First edition of Webster's Tables appeared ca. 1624; second edition, 1629; third edition 1634. -- This work bound with: The Treasurers Almanack: Wherein with necessary Tables of Interest, the lenders gaine, and borrowers losse, of 10, 8, 7, 6 in 1000 are easily composed and demonstrated for the longiture and latitude of all places whatsoever. 1632. Being most necessary and helpfull in coine, value, waight and measure of all things. And properly referred and rectified to the Generall, Coronell, Knight, Merchant, Grocer, Goldsmith, Scrivener, Buyer, Lender, Artificer, Tradesman, Or, Nobleman, Commander, Gentleman, Mercer, Draper, Fishmonger, Usurer, Seller, Borrower, Clothier, Husbandman, and whoever eles. Also may fitly serve for the sea. This last edition corrected and amended. London: Printed by John Dawson, 1639. - [32] p.

Weddle, T *On annuities and assurances on successive lives.* [pamphlet]. [RKN: 40305]

Weddle, T (1847). *Investigation of certain properties of the Ellipsoid.* [pamphlet]. 1847. [RKN: 40395]

Weeks, Rufus W; New York Life Insurance Company (1893). *Reply of the New York Life Insurance Company, to an interrogatory of the Hon Minister of Finance of Russia, reading as follows: "Ought the present operations of American companies in Russia to be regarded as detrimental to the people of Russia and to the business of Russian companies, or not?".* [corporate document]. - Paris: 1893. [RKN: 41672]

Institute: Collected papers: General papers on insurance 1877-1937

Wells, D H (1890). *Tables based on the American tables of mortality and three per cent interest.* [book]. - Hartford CN (USA): 1890. [RKN: 4660]

Welton, Thomas A (1860). *Statistical papers based on the census of England and Wales, 1851, and relating to the occupations of the people and the increase of population 1841-51.* [book]. - London: 1860. [RKN: 2154]

Welton, Thomas A (1871). *On the effect of migrations in disturbing local rates of mortality, as exemplified in the statistics of London and the surrounding country, for the years 1851-1860.* [pamphlet]. - London: 1871. [RKN: 3779]

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Welton, Thomas A (1897). *On the English mortality from phthisis in the years 1881-1890*. [pamphlet]. - London: 1897. [RKN: 42011]
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Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

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Journal of the Statistical Society (1880) **43(3)**: 509-520.

Westergaard, Harald (1890). *Die Grundzuge der Theorie der Statistik*. [book]. - Jena: Gustav Fischer, 1890. - vi, 286 pages. [RKN: 2588]

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Commercial pamphlet collected in volume of prospectuses of assurance societies by the Clerical, Medical and General Life Assurance Society (Library ref. 8178)

[Westminster Life Insurance Society] (1802). *A full report of the proceedings on the second trial in the cause Kerslake against Sage and others, Directors of the Westminster Life Insurance Office: including the evidence and opinions of Drs Carmichael Smith, Crichton, Willich, Reynolds, Latham and Blane, on cases of pulmonary consumption: faithfully taken in short hand with an appendix of documents*. [corporate document]. - London: Printed for N Row, 1802. - xiv, [2], 131 pages. [RKN: 11233]

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Westminster Society for Insurance on Lives and Survivorships, and Granting Annuities (n.d.). [Prospectus]. [commercial pamphlet]. n.d.. [RKN: 41286]
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Whewell, William (1846). *Newton's Principia: book 1, sections 1, 2, 3 - in the original latin with explanatory notes references*. [pamphlet]. - London: John W Parker, 1846. - 66 pages. [RKN: 71223]

White, William (1871). *British life insurance chart, 1871: Tabular statement, showing the yearly progress & financial position of British life associations compiled from 'The Insurance Register'*. [chart]. - London: Rixon & Arnold (printers), 1871. - 1 [folding chart] pages. [RKN: 43250]

'The compilation of British life insurance statistics presented to the public in The Insurance Register, 1865, and corrected to date, in the three editions published in 1869, received the approval of the Life Offices generally, and the leading organs of the public press. In preparing similar returns (with a few important additions) for this year's edition, the compiler deems it desirable to publish them at the same time in the form of a broadside thus presenting at one view the figures which, on the face of an octavo, necessarily cover several pages.' - end note. -- Survey of British life assurance companies for the year after the Life Assurance Companies Act of 1870

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Whitelaw, James (1805). *An essay on the population of Dublin: Being the result of an actual survey taken in 1798, with great care and precision, and arranged in a manner entirely new: To which is added the general return of the District committee in 1804, with a comparative statement of the two surveys: Also, several observations on the present state of the poorer parts of the City of Dublin*. [book]. - Dublin: Graisberry and Campbell, 1805. - 1 vols. - 4, [1], [1], 66 (+ 5 p. of folding tables), [74] (tables), 24 pages. [RKN: 15067]

Whiteley, M A; Pearson, Karl (1899). *Data for the problem of evolution in man: 1: A first study of the variability and correlation of the hand*. [pamphlet]. - London: 1899. [RKN: 42148]

Whiting, Roger (1720;1988 reprint). *Bubble cards with a satirical epigram upon each card: facsimile of 1720 playing cards*. [facsimile reprint;playing cards]. - Cheltenham: Roger Whiting, 1720;1988 reprint. - 6, 52 cards pages. [RKN: 43145]

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Whitworth, William Allen (1866). *Trilinear coordinates and other methods of modern analytical geometry of two dimensions: An elementary treatise*. [book]. - Cambridge: 1866. [RKN: 1058]

Whitworth, William Allen (1886). *Choice and chance*. - 4th ed. [book]. - Cambridge: 1886. [RKN: 1680]
Library holds 4th and 5th editions of 1886

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Wiegand, A (1869). *Die Mortalitäts- und Invaliditäts- Statistik bei Eisenbahn - Beamten. Aktenmassige Darstellung der darauf bezuglichen Operationen*. [pamphlet]. - Halle: 1869. [RKN: 40476]

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Wiegand, August (1859;1995 reprint). *The mathematical basis of railway pension funds to assist the railway companies reorganise their funds: [Mathematische Grundlagen für Eisenbahn-Pensionskassen: Für die Eisenbahn-Gesellschaften Behufs Reorganisierung ihrer Kassen]*. [translation reprint]. - Halle: 1859;1995 reprint. [RKN: 40058]

Translation by Trevor Sibbett, 1995 -- Features in S Haberman & T A Sibbett (ed), History of actuarial science (1995)

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