

A CATALOGUE OF THE BOOKS IN THE

VICKERS COLLECTION

IN THE J. B. MORRELL LIBRARY

OF THE

UNIVERSITY OF YORK

BY

DAVID GRIFFITHS

**with an essay on the Vickers Collection
(archives, books, and instruments)**

BY

ALISON BRECH

Second edition

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2002**

Preface to the first edition (1997)

This is the second catalogue of one of the Library's Special Collections that I have compiled (the first being that of the Milnes Walker Collection) and again it has been done, in my leisure hours, in order to satisfy a curiosity as to its content. I have kept the format of the catalogue adopted on that previous occasion. Mrs. Alison Brech, the Curator of the Vickers Collection, very kindly agreed to write a brief essay on the Vickers Collection as a whole, thus giving the wider context for the small collection of books that are housed in the J. B. Morrell Library of the University of York.

Preface to the second edition

The addition of four new works to the collection, numbered here 26, 33, 38, and 42, made necessary a second edition of this catalogue. The books were donated by British Aerospace, of Green Park Business Centre, Sutton-on-the-Forest, York, in August 2000, shortly before its closure. (British Aerospace had taken over the defence products of Vickers Instruments on the sale of the latter to Bio-Rad.) Also, Mrs. Alison Brech has made a few changes to her introductory essay about the Vickers Collection.

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ESTC *Eighteenth century short title catalogue.*

Franks E. R. J. Howe. *Franks bequest: catalogue of British and American book-plates bequeathed to the Trustees of the British Museum by Sir A.W. Franks.* London: British Museum, 1903-1904. 3 vols.

NSTC *Nineteenth century short title catalogue.*

Wing Donald Wing. *Short-title catalogue of books printed in England, Scotland, Ireland, Wales, and British America and of English books printed in other countries, 1641-1700;* 2nd ed. New York: Modern Language Association of America, 1972-1978. 3 vols.

ESSAY ON THE VICKERS COLLECTION

The Vickers Collection is a collection of scientific instruments, archives and books from Vickers Instruments in York. The Collection was given on indefinite loan to the University of York by Vickers plc in 1988.

Background

The scientific instrument manufacturing business of T. Cooke & Sons was started by Thomas Cooke in York in 1837. He was a self-taught optical engineer of great ability who in 1855 built his own factory on Bishophill, York, producing a great range of goods from spectacles, telescopes and surveying equipment to sundials, clocks and lathes. On his death in 1868 his sons took over the firm which continued to expand and export goods worldwide particularly astronomical and surveying equipment. By the turn of the century defence products for the home market had also become an important field and in 1914 a new factory was built on Bishophill to cope with war work.

In 1915 the control of Cooke's was acquired by Vickers Ltd., the engineering firm of shipbuilding and aircraft fame, who had long had an interest in the military side of Cooke products such as rangefinders, gunsights and surveying instruments adapted to military needs. Cooke's continued to expand in York and in 1922 they amalgamated with the long established instrument-making firm of Troughton & Simms Ltd of London. The new firm became Cooke, Troughton & Simms Ltd and in 1924 it became a wholly-owned subsidiary of Vickers. In 1939 another new factory was built on a larger site in Haxby Road and during the second world war, of the 3,300 people employed by the firm, 1,400 were women.

After the war microscopes, survey equipment and engineers' measuring instruments became the main products. In 1963 following the acquisition of the C. Baker Ltd microscope factory the new company of Vickers Instruments Ltd was formed. This continued as a profitable business for many years, mainly selling microscopes, surveying instruments and micromeasurement apparatus. During the 1980s the firm's traditional skills in optics and mechanics were enhanced by electronics and software expertise and Quaestor, a new instrument for handling microchips was produced as well as other high precision measuring apparatus and on the defence side, laser range finders for Vickers' tanks.

In 1989 the business was sold by Vickers to Bio-Rad Micromeasurements Inc, an American company based in California, although the defence products were acquired separately by British Aerospace. Vickers decided to deposit the company's archives and collection of scientific instruments on indefinite loan with the University of York. The instruments are now on display in the Department of Physics and the archives are in the Borthwick Institute of Historical Research. The collection also

includes a number of printed books which are kept in a Special Collection in the University J B Morrell Library.

Instruments

The collection reflects the wide range of instruments produced by Troughton & Simms, T. Cooke & Sons, Cooke, Troughton & Simms and Vickers Instruments over the years. It was built up mainly by the enthusiasm and interest of E. W. Taylor, F.R.S. He joined the firm in 1908 straight from school, later became Managing Director and was awarded an Honorary Doctorate by the University of York in 1977. He took a keen interest in the setting up of the Thomas Cooke Optician's shop in the Castle Museum and arranged for the museum to acquire a collection of instruments for the shop window from a colleague, Dr. R. S. Clay.

The oldest instruments are by Troughton & Simms and include sextants, theodolites, levels and a zenith telescope as well as copies of the British standards of length i.e. two standard feet and two standard yards. After fire had destroyed the Houses of Parliament in 1834 where the British primary standards were stored, Troughton & Simms made the new standards of length and copies of these can still be seen on display in Trafalgar Square, amongst other places.

There are comparatively few T. Cooke instruments in the collection partly because many instruments were made for the trade and inscribed with the appropriate retailer's name. However there are his medals awarded as prizes at exhibitions from 1855- 1874, two astronomical clocks and an aneroid barometer. Many of his turret clocks are still in working order in churches and buildings around York and the Yorkshire Museum Observatory houses an early refracting telescope. The sundial on Heslington Hall is also by Thomas Cooke, erected in 1855. Later instruments by T. Cooke & Sons include six theodolites made for Scott's 1912 Antarctic Expedition, one of which (supposedly the one found inside Scott's tent) was returned to the firm and is now in the collection.

Cooke Troughton & Simms instruments include theodolites, levels and survey equipment of all types, similar to those used for many years by the Ordnance Survey. Rail gauges and special lamps for railway use were also made by the firm. Microscopes in the collection, made by Cooke Troughton and Simms, Vickers Instruments and Charles Baker, range from the highly sophisticated Projection Microscope to the simpler student models and the tiny McArthur microscope that can be held in one hand.

Archives

The archives consist of the records that have survived from T. Cooke & Sons, Troughton & Simms, Cooke, Troughton & Simms, Charles Baker and Vickers Instruments over the years and are catalogued under the name of the firm. They include business records i.e. minute books, accounts and legal documents as well as order books, technical notebooks, publicity material, catalogues and manuals. In addition there are items of historical interest from each firm. From T. Cooke & Sons not only does a copy of the Buckingham Works factory Rules and Regulations of 1865 survive but also many of the deeds of properties on Bishophill. There is an excellent collection of early catalogues from 1860 and photographs, mainly of instruments, from 1870 onwards. There are also early photograph albums from Troughton & Simms as well as Apprenticeship Indentures from 1763

onwards and Edward Troughton's patent of 1788 for a new design of sextant. Cooke, Troughton & Simms' records include files from William Connell's visits to South Africa, South America, Spain and Canada in the 1920s, wartime records of work for the government from 1940 and plans of the Haxby Road factory. There is a large collection of photographs and glass negatives of people, instruments and views of the factory as well as 16mm film of Cooke, Troughton & Simms in wartime and the 1951 York Festival. There is an excellent collection of patent specifications classified according to the type of instrument, dating back to 1850 and many papers on technical subjects, some written by employees of the firm. Bound collections of Vickers News shed light on the more social aspects of the firm as do the fifteen scrapbooks of newspaper cuttings. Two company histories have been written and the research material for these has been kept. There is also a catalogue for the main Vickers archive held at Cambridge University Library which includes quarterly reports from Cooke, Troughton & Simms.

Special Collection of Printed Books

These came from the Vickers Instruments library and many were acquired by Wilfred Taylor when writing 'At the Sign of the Orrery'. They include 17th, 18th and 19th century works on surveying, astronomy and microscopy, including retailers' advertisements and catalogues, histories of the firm (including Vickers) and an index to the archives.

Alison Brech
22 January 2002

CATALOGUE

1

Adams, George.

Geometrical and graphical essays, containing, a general description of the mathematical instruments used in geometry, civil and military surveying, levelling and perspective; with many new practical problems. Illustrated by thirty-four copper plates. By the late George Adams, mathematical instrument maker to His Majesty, &c. The third edition, corrected and enlarged by William Jones, F. Am. P. S.

London: printed by W. Glendinning, 25, Hatton-Garden; for, and sold by, W. and S. Jones, opticians, Holborn. 1803. Price 14 s. in boards.

518 p., plates. 20 x 13 cm.

Signature on the verso of the front fly-leaf: Wm Simms. With a fourteen-page catalogue entitled *A catalogue of optical, mathematical, and philosophical instruments, made and sold by W. and S. Jones, [No. 30,] Lower Holborn, London;* and a two-page advertisement for "several Philosophical Works" formerly published "by the late Mr. George Adams, deceased, of Fleet Street."

NSTC A 260

Location: VC R 7.8 ADA

1

3

Bird, John.

The method of constructing mural quadrants. Exemplified by a description of the brass mural quadrant in the Royal Observatory at Greenwich. By Mr. John Bird, mathematical instrument-maker in the Strand. Published by order of the Commissioners of Longitude.

London: printed by W. Richardson and S. Clark; and sold by John Nourse, in the Strand; and Mess. Mount and Page, Tower-Hill. MDCCCLXVIII.

[4], v-vi, 7-27, [1] p., plates. 28 x 23 cm.

Pencil signature on half-title: T [or I or J] Catton.

With a half-title. Bound with John BIRD, *The method of dividing astronomical instruments.*

ESTC t132367

Location: VC Quarto Z 81.2 BIR

4

Bird, John.

The method of dividing astronomical instruments. By Mr. John Bird, mathematical instrument-maker in the Strand. Published by order of the Commissioners of Longitude.

London: sold by John Nourse, in the Strand; and Mess. Mount and Page, Tower Hill. MDCCCLXVII.

vi, 14 p., plate. 28 x 23 cm.

Inscription on title-page: To J.J. Steward Esq. / with kind regards from / [name illegible]; and also, in pencil, the signature: T. [or I or J] Catton.

The plate is numbered IV.

ESTC t132422

Location: VC Quarto Z 81.2 BIR

5

Brech, Alison J.

Vickers Instruments archives. Index.
[York,] Vickers Instruments, 1988.

35 unnumbered leaves. 30 x 21 cm.

Compiled by Alison J. Brech. Caption-title; typescript.

Location: VC Quarto G 8.47Z812 VIC/B

Carpenter, William Benjamin.

The microscope and its revelations; by the late William B. Carpenter, ... Eighth edition. In which the first seven and the twenty-third chapters have been entirely rewritten, and the text throughout ... revised by the Rev. W. H. Dallinger, &c. London / J. & A. Churchill / 7 Great Marlborough Street / 1901.

xx, [1], 1181 p., 22 plates; illus. 23 x 15 cm.
Signature on the verso of the front fly-leaf: T. T. Kennaird / 1935.
With a half-title.

Location: VC R 10 CAR

Clay, Reginald Stanley.

The history of the microscope compiled from original instruments and documents, up to the introduction of the achromatic microscope; by Reginald S. Clay ... and Thomas H. Court. London: Charles Griffin and Company, Limited, 42 Drury Lane, W.C. 2. 1932.

xiv, 266 [2], p., illus. 26 x 19 cm.
Stamp on front fly-leaf: Property of Cooke, Troughton & Simms Ltd, with a date added in pencil, 28.11.50.

Location: VC R 10 CLA

Disney, Alfred Norman.

Origin and development of the microscope, as illustrated by catalogues of the instruments and accessories, in the collections of the Royal Microscopical Society, ... edited by Alfred N. Disney, in collaboration with Cyril F. Hill, and Wilfred E. Watson Baker, preceded by An historical survey on the early progress of optical science, by the editor.

Published by the Royal Microscopical Society, 20, Hanover Square, London, W. 1, 1928.

2 copies. xi, [1], 303, [1] p. 23 x 15 cm.
Inscription on front fly-leaf of one copy: With kind regards / Wilfred E. Watson Baker; signature on front fly-leaf of the other copy: E. Wilfred Taylor.

Location: VC R 10 ROY

Dollond, Peter.

Description and uses of the new invented universal equatorial instrument, or, portable observatory. With the divided object-glass micrometer. Made by P. and J. Dollond, opticians to His Majesty, in St. Paul's Church-Yard, London. [London, John Sewell, 1772?]

16 p.
Folded frontispiece tipped in. Bound with John BIRD. *The method of dividing astronomical instruments.*

Location: VC Quarto Z 81.2 BIR

Dummelow, John.

1899-1949. By John Dummelow. 1949 / Manchester / Metropolitan-Vickers Electrical Company Limited.

x, 250 p., plates. 28 x 22 cm.
Bookplate on front paste-down with the lettering: Presented to / L. A. Payne / by the directors of / Metropolitan-Vickers Electrical Co. Ltd.
Written to commemorate the golden jubilee of Metropolitan-Vickers Electrical Company. Typescript letter from Metropolitan-Vickers Electrical Co. Ltd. to L. A. Payne Esq. of Messrs. Cooke, Troughton & Simms Ltd., York, concerning the gift of an earlier book.

Location: VC Quarto G 8.47Z213 MET/D

Evans, Sir Harold, Bart.

Vickers: against the odds 1956-1977. Hodder and Stoughton, London, Sydney, Auckland, Toronto. (1978).

287 p., plates. 24 x 16 cm.
ISBN: 0340 23434 2

Location: VC G 8.47Z234 VIC/E

Galton, Sir Francis.

Hints to travellers. Edited by a committee of council of the Royal Geographical Society, consisting of Admiral Sir G. Back, F. R. S., Admiral Sir Richard Collinson, K. C. B., and Francis Galton, Esq., F. R. S. Fourth edition, edited by Francis Galton, Esq., F. R. S.

London: published for the Royal Geographical Society, by Edward Stanford, 55, Charing Cross, S.W. 1878. Price two shillings and sixpence.

103, [1] p., illus. 17 x 13 cm.
Location: VC N 0.2 ROY

Gill, Sir David.

A history and description of the Royal Observatory, Cape of Good Hope. By Sir David Gill, K. C. B. etc.

London: published by His Majesty's Stationery Office. Printed by Neill & Co., Limited, Bellevue, Edinburgh. 1913.

cxc, 136 p., plates. 37 x 28 cm.
Inscription on front fly-leaf: Troughton & Simms, / 340, Woolwich Road, / Charlton, S.E. / November 5th 1913.
Rear pocket contains a folded "Plan of the Royal Observatory, Cape of Good Hope"; "Diagram of the geodetic triangulation of South Africa"; and two photographs, both headed "Troughton & Simms catalogue", with MS. notes on the reverse of the mounts.
Location: VC Quarto T 2.19687 ROY/G

14

Harris, Joseph.

The description and use of the globes and the orrery. To which is prefix'd, by way of introduction, a brief account of the solar system. By Joseph Harris, ... The sixth edition. London: printed for Thomas Wright, mathematical instrument-maker, at the Orrery near Water-Lane; and E. Cushee, globe-maker, at the Globe and Sun, between St. Dunstan's church and Chancery-Lane; both in Fleet Street. M.DCC.XLV.

viii, 190 p., plates. 20 x 13 cm.

Bookplate of Montague Rush (Franks 25679); inscription on front fly-leaf: M: Rush / S^t John's Oxon / 1753.

ESTC t064239

Location: VC T 3.28 HAR

15

Harris, Joseph.

The description and use of the globes, and the orrery. To which is prefix'd, by way of introduction, a brief account of the solar system. By Joseph Harris, ... The eleventh edition. London: printed for B. Cole, at the Orrery, near the Globe Tavern, in Fleet-street, late the shop of Mr. Thomas Wright, instrument-maker to His Late Majesty; and E. Cushee, near St. Dunstan's church, Fleet-street. MDCCLXXIII.

viii, 220, [4] p., plates. 20 x 13 cm.

Bookplate of Thomas Pitt (Franks 23676).

With a final advertisement entitled *A catalogue of mathematical, philosophical and optical instruments, made and sold by Benjamin Cole, at his shop, the sign of the Orrery, no. 136, in Fleet-street, London.*

ESTC n008514

Location: VC T 3.28 HAR

16

Harris, Joseph.

The description and use of the globes, and the orrery. To which is prefix'd, by way of introduction, a brief account of the solar system. By Joseph Harris, ... The twelfth edition. London: printed by John Rivington, jun. for John, Francis, and Charles Rivington, at n^o 62, in St. Paul's Church-Yard; and sold by John Troughton, successor to Mr. B. Cole, instrument-maker, n^o 136, in Fleet-street. MDCCLXXXIII.

viii, 220, [4] p., plates. 20 x 13 cm.

Ink stamp on front fly-leaf H. I. [J?] Hook.

With a final advertisement entitled *A catalogue of mathematical, philosophical, and optical instruments, made and sold by John Troughton, successor to Benjamin Cole, at his shop, the sign of the Orrery, n^o 136, in Fleet-street, London.*

ESTC t128051

Location: VC T 3.28 HAR

17

Hoare, Henry Peregrine Rennie.

Hoare's bank: a record 1673-1932.

London, 37 Fleet Street E. C. [priv. pr.], 1932.

3

xi, 87 p., plates. 25 x 20 cm.

"This short record of our business [has been] prepared by one of our partners, H. P. R. Hoare." (Foreword.)

Location: VC G 2.10942 HOA/H

18

Hogg, Jabez.

The microscope: its history, construction, and application; being a familiar introduction to the use of the instrument, and the study of microscopical science. By Jabez Hogg, ... With upwards of five hundred engravings, and coloured illustrations by Tuffen West. Eighth edition.

London: George Routledge and Sons, New York: 416, Broome Street. 1871.

xx, 762 p., 8 plates; illus. 19 x 13 cm.

With a half-title.

Location: VC R 10 HOG

19

Jones, Geoffrey.

British multinationals: origins, management and performance; edited by Geoffrey Jones (Business history series).

Aldershot, Gower, 1986.

xi [1], 212 p.; illus. 24 x 16 cm.

ISBN: 0566 00997 8

Location: VC G 8.47 JON

20

Leybourn, William.

The compleat surveyor: or, the whole art of surveying of land, by a new instrument lately invented; ... Containing plain and easy directions in several kinds of mensurations, ... By William Leybourn. The whole altered and amended, ... The fifth edition, in IX books. ... and an appendix ... by Samuel Cunn.

London: printed for Samuel Ballard at the Blue Bell, and Aaron Ward at the King's Arms in Little Britain, and Tho. Woodward at the Half-Moon against St. Dunstan's church in Fleetstreet. 1722.

[12], 100; 166; 155, [1] p., plates; port. 30 x 19 cm.

Bookplate of Philip, Earl Stanhope (Franks 27866/7).

Title-page in red and black.

ESTC t147918

Location: VC Quarto N 5.9 LEY

21

Loftus, Ernest Achey.

A history of the descendants of Maximilian Cole of Oxford, who flourished in the 17th century; compiled by Ernest A. Loftus.

London / Adlard & Son, Limited / 21, Hart Street, W.C. 1 / 1938.

iv, 48, [16] p. 28 x 22 cm.

Inscription on front fly-leaf: With the compiler's compliments / 24/9/42 E. A. Loftus / To Messrs Cooke, Troughton & Simms, Ltd.

A folded sheet entitled *Cole pedigree* in rear pocket.

Location: VC Quarto Q 29.2 COL/L

Ludlam, William.

An introduction and notes, on Mr. Bird's method of dividing astronomical instruments. To which is added, a vocabulary of English and French technical terms. By W. Ludlam, late Fellow of St. John's College, Cambridge.

London: sold by John Sewell, no. 32, Cornhill. MDCCCLXXXVI.

[3], iv-v, [1], 32, [2] p., plate. 28 x 33 cm.

Bound with John BIRD. *The method of dividing astronomical instruments.*

ESTC t011201

Location: VC Quarto Z 81.2 BIR

McConnell, Anita.

Instrument makers to the world: a history of Cooke, Troughton & Simms; by Anita McConnell.

William Sessions Limited, York, England. (1992).

xii, 116 p. 20 x 26 cm.

ISBN: 1850720967

Location: VC R 7.8 McC

Metropolitan-Vickers Electrical Company.

A register of ex-apprentices and ex-trainees of the Metropolitan-Vickers Electrical Co. Ltd.

Head Office: Trafford Park, Manchester 17, England. (1957). 699 p., plates. 23 x 19 cm.

Fourth edition, covering the period 1902-1956.

Location: VC G 8.47Z213 MET/M

Parkinson, Stephen.

A treatise on optics; by S. Parkinson ... Third edition revised. London: Macmillan and Co. 1870.

iv, 352 p.; illus. 19 x 13 cm.

Inscriptions on front fly-leaf: J. R. Holt 20 T.C.D [and] G. T. McCaw M. A. / Taghnevan / Lurgen / Ireland. To this latter has been added, in pencil: For many years / Mathematician to the War Office, / London.

Label pasted at the foot of the front fly-leaf reads: Supplied by / the Connell / Instrument Co. / (Pty.) Ltd. / P.O. Box 3954 / Tel. 22-3472 / Johannesburg.

Location: VC U 5 PAR

Parr, Alfred.

Principles of setting-out: securing and tooling operations for engineering students and apprentices and students in manual training - metal work; by Alfred Parr with an introduction by C. H. Bulleid.

London, New York, Bombay, and Calcutta: Longmans, Green, and Co., 1913.

iii-x, 290, [2] p., illus. 23 x 15 cm.

Donated by British Aerospace in 2000.

Signature on front free end-paper: J. Wm. Harrison.

Location: VC Z 21.75 PAR

Ramsden, Jesse.

Description of an engine for dividing mathematical instruments. By Mr. J. Ramsden, mathematical instrument-maker. Published by order of the Commissioners of Longitude.

London: printed by William Richardson; and sold by John Nourse, in the Strand; and Mess. Mount and Page, Tower-Hill. MDCCCLXXVII.

[4], 14 p., plates (numbered II-IV).

Bound with John BIRD. *The method of dividing astronomical instruments.*

ESTC t102009

Location: VC Quarto Z 81.2 BIR

Ramsden, Jesse.

Description of an engine for dividing strait lines on mathematical instruments. By Mr. J. Ramsden, mathematical instrument-maker, and optician. Published by order of the Commissioners of Longitude.

London : printed by William Richardson; and sold by John Nourse, in the Strand; and Mess. Mount and Page, Tower Hill. MDCCCLXXIX.

16 p., 3 plates (numbered I-III).

Bound with John BIRD. *The method of dividing astronomical instruments.*

ESTC t031670

Location: VC Quarto Z 81.2 BIR

Rathborne, Aaron.

The surveyor in foure bookes by Aaron Rathborne.

London / Printed by W: Stansby for, W: Burre. 1616.

[8], 228 p. 29 x 19 cm.

The name "Congreve" is written in pencil on p. [3]; "R Congreve" is written in ink on p. [5]; and "Richard Congreve" is written in ink on p. 1. Inscription on a rear endpaper reads: Tho: Dale / his booke.

Engraved title-page.

Location: VC Quarto N 5.9 RAT

Repsold, Johann Adolf.

Zur Geschichte der astronomischen Messwerkzeuge von Purbach bis Reichenbach 1450 bis 1830; von Joh. A. Repsold.

Leipzig, Verlag von Wilhelm Engelmann, 1908.

viii, 132 p., plates. 33 x 24 cm.

Inscription on title-page: T. Cooke & Sons Ltd. / York.

Location: VC Quarto Z 81.2 REP

Richardson, Sir Alexander.

Vickers Sons and Maxim, Limited: their works and manufactures. ... By Alex. Richardson.

London: Offices of "Engineering," 35 and 36, Bedford Street, Strand, W.C. 1902.

viii, 200 p., plates; illus. 34 x 26 cm.

Location: VC Quarto G 8.47Z234 VIC/R

Rohr, Louis Otto Moritz von.

Die Bilderzeugung in optischen Instrumenten vom Standpunkte der geometrischen Optik. Bearbeitet von der wissenschaftlichen Mitarbeitern an der optischen Werkstätte von Carl Zeiss ... Herausgegeben von M. von Rohr. Berlin. Verlag von Julius Springer. 1904. (Die Theorie der optischen Instrumente, I. Band).

XXI, [1], 587, [1] p. 24 x 16 cm.

Inscription on front fly-leaf: With the best compliments / to Mr. H. Dennis Taylor. / Jena July 18th 1906. Moritz von Rohr.

With a final advertisement.

Location: VC U 5.33 ROH

Rolt, Frederick Henry.

Gauges and fine measurements; by F. H. Rolt, with introductory note by J. E. Sears; edited by Sir R. T. Glazebrook.

London: Macmillan and Co., 1929.

2 vols., illus. 23 x 15 cm.

Vol. 1. Standards of length; measuring machines; comparators.

Vol. 2. Limit gauges; measuring instruments; general methods of measurement.

Donated by British Aerospace in 2000.

Location: VC Z 81.12 ROL

Simms, Frederick Walter.

A treatise on the principal mathematical instruments employed in surveying, levelling, and astronomy: explaining their construction, adjustments, and use. With an appendix, and tables. By Frederick Walter Simms, *etc.*

London: printed by T. Bensley, Crane Court, and sold, for the author, by Messrs. Troughton and Simms, 136, Fleet Street. 1834.

viii, 100, [8] p., illus. 23 x 15 cm.

Inscription on front fly-leaf: William Simms / 138 Fleet Street.

With a half-title and a four-page catalogue entitled *Catalogue of instruments made by Troughton and Simms, 136, Fleet Street, London.* In an extreme state of disrepair.

NSTC 2S21755

Location: VC R 7.8 SIM

Simms, Frederick Walter.

[A treatise on the principal mathematical instruments employed in surveying, levelling, and astronomy, &c. &c. London, Troughton and Simms,] 1836.

[2], v-xi, 130 p., illus. 23 x 15 cm.

Lacks title-page; the title given here is that of the half-title. This is the second edition, with a preface dated 1836. The blocking on the front cover reads: Treatise / on / mathematical / instruments / by / F.W. Simms / Price 6/-.

Location: VC R 7.8 SIM

Simms, Frederick Walter.

A treatise on the principal mathematical instruments employed in surveying, levelling, and astronomy; explaining their construction, adjustments, and use: with an appendix and tables. By Frederick W. Simms, ... Seventh edition. London: Troughton and Simms, 138, Fleet Street. MDCCCXLIX.

All that remains of the book are the title-page and four pages containing Tables I-XII; on the title-page the word "Eighth" has been added, in ink, above the word "Seventh". Presumably originally belonging to the book are the *Catalogue of instruments, made by Troughton and Simms, opticians, and mathematical instrument makers to the Honourable Board of Ordnance, 138, Fleet Street, London* [16 p., n.d.]; and, *General catalogue of instruments made by Troughton and Simms, opticians and mathematical instrument makers to Her Majesty's Government, 138 Fleet Street. London. 1864.*

Location: VC R 7.8 SIM

Simms, William.

The achromatic telescope, and its various mountings, especially the equatorial. To which are added some hints on private observatories. By William Simms, F.R.S., F.R.A.S. &c.

London: Troughton and Simms, 138 Fleet Street. 1852.

3 copies. [4], 74 p, 22 x 14 cm.

One copy has an inscription on the title-page: Mr James Simms / from his Father the Author / 9th Nov^r / 1852; another copy has a stamp on the front fly-leaf which reads: Vickers Instruments Library.

With a sixteen-page catalogue entitled *Catalogue of instruments made by Troughton and Simms, opticians and mathematical instrument makers to the honourable Board of Ordnance, 138 Fleet Street, London.*

Location: VC T 2.2 SIM

Stephanides, Theodore.

The microscope and the practical principles of observation; by Theodore Stephanides M.D.

London: Faber and Faber Ltd., 1957.

160 p., illus. 22 x 14 cm.

Ink stamp on the front free endpaper: Property of Cooke, Troughton & Simms Ltd., with the date added in ink '2nd January 1948'.

Donated by British Aerospace in 2000.

Location: VC R 10 STE

Taylor, Edward Wilfred.

At the sign of the orrery: the origins of the firm of Cooke, Troughton & Simms, Ltd. from material collected by E. Wilfred Taylor and J. Simms Wilson and brought up to date by P.D. Scott Maxwell.

[York, 1960].

76 p., plates; illus. 23 x 15 cm.
Location: VC G 8.47Z812 COO/T

40

Taylor, Harold Dennis.

A system of applied optics, being a complete system of formulæ of the second order, and the foundation of a complete system of the third order, with examples of their practical application. By H. Dennis Taylor.

London / Macmillan and Co., Limited / New York: The Macmillan Company / 1906.

xvi, 334, 19, [1] p., 24 plates. 25 x 18 cm.

With a half-title.

Location: VC U 5.33 TAY

41

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[8], 279 p., illus., tables. 19 x 13 cm.

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Wollaston, Francis.

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