

# THE COMPLEAT SURVEYOR



Illustration from *The Compleat Surveyor* by William Leybourn

An Offering of Fine and Rare Surveying Books

Proprietor:

Russell Uzes  
10 Heather Way  
Mill Valley, CA 94941  
Fax: (415) 389-8829  
Email: russuzes@ix.netcom.com

Consultant:

F.D. (Bud) Uzes  
6840 Pine Cone Rd  
Loomis, CA 95650  
Phone: (916) 652-5167

## **THE HUNT FOR OLD SURVEYING BOOKS**

My dad, Bud Uzes, authored Chaining the Land and the Illustrated Price Guide to Antique Surveying Instruments and Books while I was growing up and living at home. At an early age, I learned more than I really wanted to about the history of surveying. While I am not a surveyor, I travel a fair amount and always look for old surveying books for my dad. I oftentimes find really good books that he already has. Last year I decided to start buying these book with the thought of passing them on to people who share my dad's interest in the history of surveying.

### **TERMS OF SALE**

All sales are first come, first serve. You can reserve a book with a phone call. Call Bud Uzes to order at (916) 652-5167. I ship UPS for fast, reliable service within the continental U.S. whenever possible. Please include \$3.50 for the first book ordered, and \$2.50 for each book thereafter unless otherwise noted. USC&GS Annual Reports are \$5 each for postage. Shipments outside the continental U.S. will be at cost. Please make checks payable to Russ Uzes.

All Books guaranteed to be accurately described. If you disagree, return the books in five days (plus mailing time) and I will refund the purchase price.

### **CONDITION**

Pre-1850 American surveying books are typically quite worn. Surveyors apparently took these books out with them into the field. The leather bindings did not fare well under these conditions. Publishers also used high sulfur content paper in these books, so the pages brown and fox easily. Thus, the pre-1850 American surveying book is rarely a thing of beauty. Premiums apply to books that have survived these elements.

### **PRICES**

I am not doing this to make alot of money. Fortunately, I have a real job other than selling books. I have therefore tried to keep my prices on the low side. While you may occasionally come across the same book at a lower price, these bargained-price books have become very hard to find.

### **EMAIL**

I started sending catalogs and receiving orders by email late last year. Unfortunately, I changed jobs in January and lost all the information and orders related to my old email address. This was a disaster. I apologize to all of those who tried to reach me by email. My new email address is russuzes@ix.netcom.com **I try to reply to all email promptly, so please call if you do not hear from me within 3 days.**

**CALIFORNIA RESIDENTS PLEASE ADD 7.25% SALES TAX**

## ROBERT GIBSON

During the late 18th and early 19th centuries, Gibson's Surveying was the American standard against which other works were compared. The earlier editions of 1739, 1752, and 1768 were published in Dublin. The first American edition was published in 1785 in Philadelphia. Gibson describes use of the circumferentor (compass), theodolite, semicircle, and plane table. He also describes and gives examples for the taking of field notes and the calculation of area. The folding plates in the back are always a problem because of their susceptibility to damage and loss. In the 1800's two different versions of Gibson were published, one as revised by James Ryan and the other by John D. Craig. The Craig revision wisely moved the individual diagrams into the text, thus eliminating the problem of damaged plates.

**Abraham Lincoln** studied surveying from texts by Gibson and Flint. According to Charles Smart (1962), quoting Dr. Louis A. Warren, Editor, *Lincoln Lore* (Indiana, 1934), Lincoln used an 1814 Gibson.

*A Treatise of Practical Surveying; Which is demonstrated From its First Principles. Wherein Every Thing that is Useful and Curious in that Art is fully considered and explained.* 7th ed., (Philadelphia, 1796), 5.2" x 8.3", contemporary leather binding showing wear spots and slight tear at bottom of spine; 288 pages of text plus 150 pages of tables; 13 folding plates at the rear of the book although missing plate 12 and most of plate 1; ink inscriptions on front fly leaf reads Abraham Johnson's Book, January 1st, 1800, plus a 1940 inscription from a family descendant; some foxing. **\$160**

*The Theory and Practice of Surveying, containing All the Instructions requisite for the skilful practice of this Art,* (New York, 1814), 324 pages of text plus 184 pages of tables, 13 folding plates, 5.4" x 8.7"; inscribed "A. Hitchcock's Book;" complete as to text and folded plates which are in generally good condition. The blank end papers and cover show blackening and scorching from nearness to heat or flame. The lower portion of the rear cover is buckled and badly damaged with about 1" to 2" of the leather burned back. The hinges are a little weak but fully intact. The binding clearly needs repair or replacement. **\$85**

*A Treatise on Practical Surveying; Which is Demonstrated from its First Principles, 3rd ed., Revised, Corrected and Adapted to the use of Schools, American Surveyors, & c.* by John D. Craig, (Baltimore, 1822), 325 pages of text plus 152 pages of tables; diagrams are contained within the text; no folded plates; the book appears to have never been hardbound and the covers are plain soft boards with black cloth spine; 5.4" x 8.6". **\$95**

*The Theory and Practice of Surveying; containing all the Instructions Requisite for the Skilful Practice of this Art, Newly Arranged, Improved, and Enlarged with Useful Solutions by James Ryan,* (New York, 1834), 248 pages of text and 162 pages of tables, 14 folding plates; 5.5" x 9.0"; hinges cracked and 1" piece of leather missing from front cover near hinge, light foxing; bookplate shows formerly Hermean Society Library, Hobart College. **\$110**

## THOMAS DIX

According to an article in the *Engineering News and American Contract Journal* dated Nov. 4, 1882 (at page 382), "Dix, Love and Gibson appeared to have been the authors most read" by colonial surveyors prior to the advent of American authors who published surveying texts. At first glance Dix does not seem to be in the class of Love and Gibson, but it is hard to argue with an article written much closer in time than we are today.

*A Treatise on Land-Surveying, in Seven Parts, 3rd ed. with great additions and improvements by the author,* (London, 1808); 5.5" x 8.6"; 180 pages of text, with 200 diagrams and 12 copper plates; leather binding showing hinge cracking and chipped corners; Dix wrote this rudimentary text for use by young people, it focuses on measuring with the chain and surveyor's cross, and describes use of the pocket sextant; notable for this date are the fine illustrations of the instruments, and a sales list of instruments made by R. Banks. **\$155**

## JOHN LOVE

Love published his first edition of *Geodaesia* in London in 1688 after he returned from surveying in America. Love was particularly concerned about the lack of knowledge exhibited by young surveyors in Carolina. Later editions of the book appeared until the end of the century, with the 12th (1793) and 13th (1796) editions being published in New York. The work changed little over the years, even considering the later revisions of Samuel Clark. Instructions are given in use of a Gunter chain and measuring angles with the circumferentor, plane table, and semicircle. There are also directions for taking field notes

and measuring and calculating the acreage for plots of land. George Washington (1732-1799) studied surveying from Love's *Geodaesia*, which was widely used in colonial America.

Love's books are very popular and hard to find. Please let me know if you are interested and I will try to find one.

#### ABEL FLINT

Editions of Flint's Survey were published for a half century beginning in 1804. It was a widely used text and reference book. A testimonial by two noted early surveyors states: "The Surveyor who shall own this will not be under the necessity of purchasing Gibson which is a more expensive work." Abraham Lincoln reportedly studied from texts by Gibson and Flint.

*A System of Geometry and Trigonometry, with a Treatise on Surveying*, 7th ed., (Hartford, 1833), enlarged by George Gillet, 134 pages text, 10 pages logarithm explanation, 62 pages trigonometrical tables and 100 pages traverse tables; 5.0" x 8.2". **\$75**

*A System of Geometry and Trigonometry: with a Treatise on Surveying, in which the Principles of Rectangular Surveying, without Plotting, are explained*, 8th edition, enlarged (Hartford, 1835), 80 pages of text, 80 pages of appendix, and 112 pages of tables; 4.8" x 8.0"; partial cracking to hinges, otherwise good condition. **\$70**

*A System of Geometry and Trigonometry: with a Treatise on Surveying, Stereotype Edition, Enlarged*, by George Gillet, (Hartford, 1839), 160 pages text and 174 pages tables; 4.8" x 7.9". **\$75**

*A System of Geometry and Trigonometry: with a Treatise on Surveying, in which the Principles of Rectangular Surveying, without Plotting, are explained*, (Hartford, 1854), 80 pages of text, 80 pages of appendix, and 112 pages of tables; 5.1" x 8.1"; hinges cracked and front cover loosely attached, first few pages loose; top inch of leather missing from spine. **\$60**

#### CHARLES DAVIES

Davies' Surveying was written for the Military Academy. It became the most popular school text and professional handbook during the mid-19th century. The U.S. General Land Office extracted information from Davies' text directly into its 1855 Manual of Surveying Instructions. Both the U.S. Surveyor General for California and the California State Surveyor General issued instructions directing that tabled courses be submitted according to the Davies' method.

*Elements of Surveying, and Navigation, with Descriptions of the Instruments and the Necessary Tables, revised edition*, (New York & Cincinnati, 1856), 222 pages of text and 171 pages of tables; cracking to the hinges and the rear cover is loosely attached; previous owners names; lacking the 6 plates normally found at the rear of the book, modern copies furnished. **\$55**

*Elements of Surveying, and Navigation, with Descriptions of the Instruments and the Necessary Tables, revised edition*, (1860), same as 1856, cover hinge cracked but still securely attached, one inch of worm holes in leather on rear cover. **\$70**

*Elements of Surveying and Levelling; with Descriptions of the Instruments and the Necessary Tables*, (New York & Chicago, 1871), 270 pages of text and 161 pages of tables, 6 folding plates; the leather cover is faded in the upper portion, but a tight and good copy. **\$90**

*Elements of Surveying and Leveling, revised by J. Howard Van Amringe*, (New York, Chicago and Cincinnati, 1898), 374 pages of text, 29 pages of appendix including operation of the solar compass and mineral survey instructions, and 161 pages of tables; 5.5" x 8.3"; cover wear plus cracking of the hinges with glue repair to front hinge; former owner Gluyas J. Richards, Nevada City, Cal. **\$60**

#### JOHN GUMMERE

Gummere's Surveying first appeared in 1814, and Karpinsky (1940) reports there were editions as late as 1917. The first edition is extremely rare. The second (1817) and third (1820) are quite uncommon, as are editions printed after 1859. John Gummere was a teacher, and particularly adapted his treatise to the use of schools. The book also met certain working needs of professional surveyors. According to his 1814 preface, Gummere thought Gibson and Jess were his major competitors. Strangely, he completely ignored Flint, who likely sold many more books than Jess.

*A Treatise on Surveying, Containing The Theory and Practice: to Which is Prefixed A Perspicuous System of Plane Trigonometry, 2nd ed., improved*, (Philadelphia, 1817), 5.5" x 8.6", 206 pages of text and 152 pages of tables, with 8 folding plates in back; moderate foxing with many old ink signatures and scribbles including 1820 date inside front cover & title page; lower corner of blank front endplate torn off; cracking at the hinges and scuffing at edges of covers; a somewhat worn but nice old text. Rare second edition. **\$95**

*A Treatise on Surveying, Containing the Theory and Practice to Which is Prefixed a Perspicuous System of Plane Trigonometry, 3rd ed.*, (Philadelphia, 1820), 206 pages of text and 152 pages of tables, 8 folding plates, the plates are in fair condition from improper folding, hinges partly broken but intact; some foxing as customary. **\$75**

*A Treatise on Surveying, Containing the Theory and Practice to Which is Prefixed a Perspicuous System of Plane Trigonometry, 5th ed.*, (Philadelphia, 1828), 216 pages of text and 152 pages of tables, 8 folding plates; some foxing to text and plates, and some scuffing to outer hinges, overall in good condition for this age; previous owner Benjamin Silver, 1830. **\$75**

*A Treatise on Surveying, Containing the Theory and Practice to Which is Prefixed a Perspicuous System of Plane Trigonometry, 8th ed.*, (Philadelphia, 1833), 216 pages of text and 152 pages of tables, 8 folding plates, pencil calculations and notes appear on the backsides of the plates; bookworm holes through some of the page margins but not affecting the printed text; a 2" tear in the leather is located at the top of the spine; hinges are intact; front endpapers are detached. **\$65**

*A Treatise on Surveying, Containing the Theory and Practice to Which is Prefixed a Perspicuous System of Plane Trigonometry, 14th ed.*, (Philadelphia, 1839), 266 pages of text and 152 pages of tables, 11 folding plates; some slight wearing through of the spine, and weak but intact hinges; a tight, sound copy. This edition includes articles on the theodolite, levelling, and topography. **\$80**

*A Treatise on Surveying, Containing the Theory and Practice to Which is Prefixed a Perspicuous System of Plane Trigonometry, 14th ed.*, (Philadelphia, 1843), 266 pages of text and 152 pages of tables, 11 folding plates lacking plate 9 and part of plate 10 (modern copies of both are provided); hinges are intact although cover is worn around the edges; interior is good except for some darkening and improper folding of the plates. **\$70**

#### **WILLIAM M. GILLESPIE**

Gillespie was a professor at Union College. His text was first printed in 1851 as a synopsis of lecture notes, then became formally published in 1855. It was the first school text to illustrate and treat the operation of the American surveyor's transit, and in that regard was well ahead of Gummere, Davies, and Flint. Additional material was added later, and soon Gillespie's Surveying was published in two volumes, the first being plane surveying and direct leveling, the second being higher surveying. Cady Staley finished the portions on direct leveling and higher surveying following the Gillespie's death in 1868. In the 1890's the two works were sometimes published in a single bound volume. Gillespie and Johnson (below) surveying books were the best widely-distributed texts of the 1850 to 1900 time period.

*A Treatise on Land-Surveying: Comprising the Theory Developed from Five Elementary Principles; and the Practice with the Chain Alone, the Compass, the Transit, the Theodolite, the Plane Table, &c.* (New York, 1857), 5th ed., 5.9" x 9.0", 424 pages of text plus 38 pages of tables; illustrated by 400 engravings and a magnetic chart; some chipping to cover and cracking on hinges although cover securely attached; light foxing throughout; signed by John P. Carroll, Laurence Scientific School, September 10, 1862. **\$75**

*A Treatise on Land-Surveying: Comprising the Theory Developed from Five Elementary Principles; and the Practice with the Chain Alone, the Compass, the Transit, the Theodolite, the Plane Table, &c.* (New York, 1865), 8th ed., 6.1" x 9.3", 424 pages of text plus 100 pages of tables; hinges scuffed and front cover detached; water staining to lower outer corners of pages not quite reaching text; original owner was W. Holgate, 1869. **\$45**

*A Treatise on Levelling, Topography and Higher Surveying, edited by Cady Staley*, (New York, 1883), 173 pages of text; 6.1" x 9.4"; early signature of A.G. Hahn, later impression of Fennwood, Menlo Park, California; nice condition. **\$60**

*A Treatise on Surveying Comprising the Theory and the Practice, revised and enlarged by Cady Staley*, (New York, 1892), this book is a combined work and includes Parts I and II; 526 pages of text plus an appendix and 126 pages of tables; some scuffing along edges of binding, otherwise good. **\$70**

*A Treatise on Surveying Comprising the Theory and the Practice, revised and enlarged by Cady Staley, Part I, Land Surveying and Direct Leveling*, (New York, 1901), 400 pages of text, 20 pages of appendix, and 127 pages of tables; 6.1" x 9.1"; a few pages have darkened areas from old notepaper left in book, former owner N.L. Kendall. **\$50**

*A Treatise on Surveying Comprising the Theory and the Practice, revised and enlarged by Cady Staley, Part II, Higher Surveying*, (New York, 1907), 467 pages of text; 6.1" x 9.1", this is a color and size match to the 1901 Part I book; good condition. **\$50**

*A Treatise on Surveying Comprising the Theory and the Practice, revised and enlarged by Cady Staley, Part I, Land Surveying and Direct Leveling*, (New York, 1912), 400 pages of text, 42 pages of appendix, and 127 pages of tables; 6.1" x 9.1"; a lighter brown color than the 1907 book with sample field notes added to appendix. **\$50**

*A Treatise on Surveying Comprising the Theory and the Practice, revised and enlarged by Cady Staley, Part I, Land Surveying and Direct Leveling*, (New York, 1914), 400 pages of text plus appendix and tables; hardbound with cloth covering. **\$50**

### J.B. JOHNSON

Johnson had practical experience and was dean of the College of Mechanics and Engineering of the University of Wisconsin. His treatise was first published in 1886, with at least 17 editions continuing to about 1914. It was a progressive work for its day and includes more material than most other texts. There are sections on instruments and their operation, surveying methods, and many specialty areas such as topographic, railroad, city, hydrographic, geodetic, astronomic, and mining surveying.

*The Theory and Practice of Surveying Designed for the Use of Surveyors and Engineers Generally but Especially for the use of Students in Engineering*, 8th ed., (New York, 1891), 646 pages of text and 84 pages of formulas, tables, and the index; 3 folding plates and numerous illustrations; some half-inch wear holes on the spine and light water stain to outer edges of leaves but not appearing on page face; binding is secure; 6.2" x 9.3". **\$50**

*The Theory and Practice of Surveying. Designed for the Use of Surveyors and Engineers Generally, but Especially for the Use of Students in Engineering*. 14th ed, revised and enlarged (New York and London, 1898), 598 pages of text, 77 pages of appendix, and 65 pages of tables; 5.5" x 8.3"; some water staining to bottom of pages at rear of book, cover worn and inside papers to rear cover torn at hinge but cover still attached. The Appendix is comprised of 8 professional papers including such topics as the ownership of surveys, finite differences, and the government 1895 mineral surveying instructions; former owners identified. **\$40**

*The Theory and Practice of Surveying Designed for the Use of Surveyors and Engineers Generally but Especially for the use of Students in Engineering*. 16th ed., (New York, 1902), 750 pages of text and 88 pages of formulas, tables, and the index, 2 folding plates, 5.6" x 8.2"; showing wear at the edges of the cover and a 2 inch-long outer fabric separation at the top of the front hinge, the front blank endpaper is missing the top 1" of the page and has some old pencil writing. The appendix includes papers on the ownership of surveys, judicial function of surveyors, U.S. Mineral Instructions, derivation of geodetic formulae, and others. **\$40**

### BREED & HOSMER

Charles B. Breed and George L. Hosmer were professors at M.I.T. Their 2-volume set of surveying textbooks were published for over 50 years, beginning in 1906. The books are well written and comprehensive. A very popular work.

*The Principles and Practice of Surveying, Volume II, Higher Surveying*, 2nd ed., (New York, 1916), 443 pages, 5.0" x 7.4", covers worn and separating from boards, text good and intact. This book was widely used at the university level, as well as by professional surveyors. **\$22**

*The Principles and Practice of Surveying, Vol. I, Elementary Surveying*, 4th ed, (New York & London, 1918), 481 pages of text, 89 pages of tables, and 10 pages of appendix; 5.0" x 7.4"; cover shows wear and some damage to endpapers; numerous early owners identified. **\$30**

*The Principles and Practice of Surveying, Vol. I, Elementary Surveying*, 5th ed. (New York & London, 1923), 481 pages of text, 89 pages of tables, and 10 pages of appendix; 5.0" x 7.5"; original owners name [Lt. R.L. Hubach] on tape on front cover; scuffing to spine, otherwise good. **\$30**

*The Principles and Practice of Surveying, Vol. II, Higher Surveying*, 2nd ed., (New York & London, 1923), 442 pages of text and several plates; original owners name [Lt. R.L. Hubach] name on tape on front cover - this forms a set with the 5th edition of Vol. I. Good condition. **\$30**

*The Principles and Practice of Surveying, Volume I, Elementary Surveying, revised with the assistance of Alexander J. Bone*, (New York & London, 1958), 5.1" x 7.4", contains 597 pages of text, 90 pages of tables, and 13 pages of appendices; ex lib; substantially rewritten from the earlier editions. **\$20**

### CATALOGS

**EUGENE DIETZGEN CO.**, *Catalog*, 16th ed., (Chicago, 1949), 6.3" x 9.1"; 608 pages plus 45 page price list dated March 1952. **\$40**

**GURLEY, W. & L.E.**, *A Manual of the Principal Instruments used in American Engineering and Surveying*, 45th edition, (Troy, N.Y., 1910), 4.6" x 6.7", 490 pages including 263 pages of text and a 217 page price list, missing from the back are 13 leaves comprising the index and part of a list of scientific books for sale; this is the first of Gurley's Manuals to include a number of color plates of instruments; outer binding is worn and title page missing, one interior torn leaf is mended by tape; still a nice reference and complete as to text, plates, and price list. **\$45**

**GURLEY, W. & L.E.**, *Manual of Gurley Hydraulic Engineering Instruments*, 1st ed., (Troy, NY, 1918), 139 pages plus separate price list; includes sections on the construction and use of current meters and water stage registers, and selection and location of gauging stations; numerous illustrations. **\$50**

**KEUFFEL & ESSER CO.**, *Catalog*, 34th edition (New York, 1913), 6.0" x 8.8"; 566 pages, profusely illustrated with black & white illustrations plus a few color plates; outer cover is soiled and the boards cracked front and back, contents good. **\$80**

**KEUFFEL & ESSER CO.**, *Catalog*, 38th edition, (New York, 1936), 6.1" x 9.0", 581 pages, lacking price list; contains descriptions and illustrations of drawing materials, slide rules, and surveying instruments and tools. **\$55**

**KOLESCH & CO.**, *Illustrated Catalogue and Price-List*, 12th edition, (New York, 1925), 6.1" x 9.3"; 336 pages plus 46 page price list; hardbound. **\$60**

**A. LIETZ CO.**, *General Catalog*, 19th ed., (San Francisco, 1951), 8.8" x 11.3"; 253 pages plus 46 page price list; catalog contains illustrations and descriptions of drawing materials and surveyors supplies; hardbound. **\$45**

**C.F. PEASE COMPANY**, *Instructions about using the New Improved "LOXO" Compound Level, Builders's Wye Level, Dumpy Level, and Carpenter's or Farm Level*, (Chicago, n.d., c. 1920's), 11 pages, paper covers illustrating instruments; booklet shows having been folded but otherwise good and intact. **\$18**

**ZEISS, CARL**, (catalog) *Astronomical Telescopes*, (Jena), 1906, 3rd ed. Catalogue Astro. 8. Signed and dated by George Davidson, Aug. 28, 06.; 64 pages, numerous plates and photographs; 9" x 11.8"; stiff printed wrappers; with original translucent velum dust jacket separately signed by Davidson. Davidson was the West coast's premier pioneer scientist, serving with the U.S. Coast Survey for 50 years. He built an observatory at his own expense on Lafayette Square in San Francisco in 1879, and personally operated it for two decades. He was associated with the University of California for nearly 40 years, teaching geodesy, astronomy, and geography. This is the English edition of the Zeiss catalog of astronomical instruments. It contains descriptions of mountings, Azimuthal Telescopes, Comet Seeker, Equatorial Telescopes, Refractors, Instrument for

Astro-photography, Prisms, Micrometers, Spectroscopes, Sun and Moon Camera, Stereo-Comparator, and a Wood Cupolas-Dome. **\$175**

**ZEISS, CARL**, (catalog) *New Equatorial Telescope Mountings, after Meyer*, (Jena) 1906. Prospectus designated "Astro. 10.", paperback, 9" x 11.8". Companion to the above Zeiss catalog and also from the personal collection of George Davidson. Handwritten ink date of Dec 8, 06 in Davidson's hand, although lacking signature. 12 pages, numerous plates with illustrations of large telescopes in domed observatories, showing equatorial mountings. Also shows motor appliances for motion, and an electric automatic weight elevator and governor. **\$30**

#### **U.S. GENERAL LAND OFFICE**

Congress passed the Land Ordinance of 1785 that opened up the Northwest Territory to subdivision and sale. The ordinance set forth instructions for the method of survey of the public lands. These instructions were later modified from time to time as necessary. Annual reports were prepared by the Commissioner of the General Land Office that also contain valuable information for public lands surveys and private land grants.

*Report of the Commissioner of the General Land Office for the Year 1868*, (Washington, D.C., 1868), 421 pages; includes a poor and torn copy of U.S. map showing progress of surveys, otherwise good; ex lib. **\$70**

*Manual of Instructions for the Survey of the Public Lands of the United States, 1930*, (Washington, 1934), 530 pages, including 465 pages of instructions and 65 pages of specimen field notes, 4 folding plates, 4.5" x 7.1", good condition. **\$45**

*Manual of Instructions for the Survey of the Public Lands of the United States, 1947*, (Washington, 1947), 521 pages of instructions and 92 pages of specimen field notes and index, 2 folded maps in rear pocket, 6.2" x 9.4", good condition. **\$40**

#### **U.S. COAST & GEODETIC SURVEY**

The Annual Reports of the Superintendent of the U.S. Coast Survey, later the U.S. Coast & Geodetic Survey, contain the superintendent's summary report, details of agency field and office operations, and appendices containing several individual reports. Content of the appendices varies year by year, but most volumes contain information that is technically substantive. Many reports have charts often overprinted with triangulation schemes.

*REPORT OF THE SUPERINTENDENT OF THE U.S. COAST AND GEODETIC SURVEY SHOWING THE PROGRESS OF THE WORK DURING THE FISCAL YEAR ENDING WITH JUNE, 1887*, (Washington, 1889), 9.4" x 11.6", 92 pages, 42 folding plates, plus 420 pages to appendix; scientific reports include discussions of magnetism, movement of sands in Vineyard Sound, level of Lake Champlain, instructions for descriptive reports, and in particular the impressive 200 page bibliography of geodesy. **\$75**

*REPORT OF THE SUPERINTENDENT OF THE U.S. COAST AND GEODETIC SURVEY SHOWING THE PROGRESS OF THE WORK DURING THE FISCAL YEAR ENDING WITH JUNE, 1889*, (Washington, 1890), 9.6" x 11.7", 100 pages, 50 folding plates, plus 400 pages to appendix; scientific reports include discussions of the metric standard of length, measurement of the Los Angeles base line, two new portable transit instruments for longitude work, baseline measure results, and Davidson's report of the International Geodetic Ass'n. at Paris. **\$65**

*REPORT OF THE SUPERINTENDENT OF THE U.S. COAST AND GEODETIC SURVEY SHOWING THE PROGRESS OF THE WORK DURING THE FISCAL YEAR ENDING WITH JUNE, 1896*, (Washington, 1897), 9.4" x 11.6", 142 pages, 20 folding plates, plus appendices of 580 pages containing 12 reports. Included in the appendices are discussions of terrestrial magnetism, spirit leveling on the east coast, Naval Observatory Circle, solution to the geodetic problem, logarithms and surveys in Alaska. **\$55**

*Manual of Second and Third Order Triangulation and Traverse*, USC&GS Special Publication No. 145, (Washington, 1929), 226 pages, 5.8" x 9.2", paperback, lacking the back cover and pages 225 & 226 which are the last two pages of the index; well worn condition with small cover tears. **\$10**



*Manual of Triangulation Computation and Adjustment*, USC&GS Special Publication No. 138, by Walter F. Reynolds (Washington, 1934), 242 pages, paperback. This work shows, step by step, how the computation of triangulation was carried on from the time the field observations were received in the office until the final results were published. **\$20**

*First and Second Order Triangulation in California, 1927 Datum*, USC&GS Special Publication No. 202, by Hugh C. Mitchell (Washington, 1936), 548 pages and 45 figures, paperback, 5.8" x 9.2". This book contains the plane coordinates, geographic positions, and site descriptions for first and second order triangulation stations executed by the U.S. Coast & Geodetic Survey and certain other agencies up to 1934. **\$75**

*Signal Building*, U.S. Coast & Geodetic Survey Special Publication No. 234, by Jasper S. Bilby (Washington, 1943), 43 pages, 5.9" x 9.2", paperback, numerous photographs and diagrams. This manual was prepared as a guide for field personnel who have occasion to construct wooden towers, large or small. Towers up to 120 feet in height are shown and described. At the time, towers were frequently known as "signals." **\$10**

*Manual of Geodetic Leveling*, U.S. Coast & Geodetic Survey Special Publication No. 239, by Howard S. Rappleye (Washington, 1948), 94 pages, 7" x 10"; paperback, covers slightly soiled; photographs of instruments, diagrams, etc. **\$18**

*Manual of Geodetic Triangulation*, USC&GS Special Publication No. 247, Revised Edition, by F.R. Gossett (Washington, 1971), 344 pages, paperback, 7" x 10". This comprehensive work was first published in 1950, and revised with new specifications in 1959. The primary purpose for its publication was to furnish specifications and instructions to personnel of the U.S. Coast and Geodetic Survey engaged in geodetic triangulation. Numerous photographs. **\$20**

#### THE WHEELER SURVEYS

**WHEELER, George M.**, *Preliminary Report Concerning Explorations and Surveys Principally in Nevada and Arizona, 1871*, (Washington, 1872), 9.4" x 11.7", 96 pages plus large folding map, map is laid in. Original green cloth with minor spots on front cover. Some very minor darkening of small portions of the map, and one 6 inch tear expertly repaired. C. Hart Merriam's copy, with his signature and numerous penciled notes throughout the text. Merriam was a member of the Wheeler survey. This report was the forerunner of the later and more upscale surveys by Wheeler in the area west of the 100th meridian. It contains valuable historical information about early settlements and areas in the two states. **\$250**

**WHEELER, George M.**, *Report upon United States Geographical Surveys West of the One Hundredth Meridian, Vol. II, Astronomy and Barometric Hypsometry*, (Washington, 1877), 9.7" x 12", 571 total pages including 22 plates, in two parts, the first 491 pages deal with astronomy and astronomic observations, the remainder with barometric hypsometry; very nice condition except scattered light foxing the outer spine has partial speckled loss of brown color. There are 7 total volumes in the 100th meridian set. **\$70**

**WHEELER, George M.**, *Annual Report upon the Geographical Surveys of the Territory of the United States West of the 100th Meridian, in the States and Territories of California, Colorado, Kansas, Nebraska, Nevada, Oregon, Texas, Arizona, Idaho, Montana, New Mexico, Utah, Washington, and Wyoming. Being Appendix NN of the Annual Report of the Chief of Engineers for 1878*, (Washington, 1878), 234 pages plus 5 plates, one small map and one large folding color map: 1878 Progress Map of the U.S. Geographical Surveys West of the 100th Meridian. Ex-New York Public Library with their perforation stamp on title and ink stamps on verso of title and maps. Rebound in buckram. This is a detailed report on the Wheeler Survey's final year of government-funded field work. It has sections on the Great Salt Lake Basin, Lake Tahoe area, and the Washoe and Comstock Lode mining regions. **\$135**

#### MISCELLANEOUS SURVEYING

**BARTON, Samuel Marx**, *Elements of Plane Surveying, revised ed.* (Boston, New York & Chicago, 1913), 144 pages of text and 111 pages of tables & appendix; 6.7" x 9.4"; many diagrams and illustrations including one isogonic map color plate; this well written basic college text is quite comprehensive and ideal for self study, and contains descriptions of the solar compass, telescopic compass, vernier compass, transit, 2 types of solar transit, plane table, and wye level; topics include stadia surveying, errors, omissions, area calculation, and many others. **\$35**

**BROWN, Curtis M.**, *Boundary Control for Surveyors in California*, (San Diego, 1954), 148 pages, paperback, 5.1" x 8.5". The late Mr. Brown was the foremost author of his day with regard to the legal elements of boundary surveying. This was his first published work. Mr. Brown was the principal author on two other books about boundary surveying, plus one about historical surveys in San Diego County. **\$60**

**CULLIMORE, Allan R.**, *The Use of the Slide Rule*, 2nd ed., (New Jersey, 1920), published by Keuffel & Esser Co., 38 pages, 5.9" x 9.0", hardbound with gold lettering; nice condition. **\$15**

**DAVIS, FOOTE & RAYNER**, *Surveying, Theory and Practice*, 2nd ed., (New York, 1934); 872 pages of text and 160 pages of tables; 4.7" x 7.6"; dark red cover; many diagrams and photographs. **\$25**

**DAVIS & FOOTE**, *Surveying, Theory and Practice*, 3rd ed., (New York, 1940), 876 pages of text and 156 pages of tables, 4.9" x 7.6"; green buckram cover; blank front leaf missing; many diagrams and photographs. **\$30**

**DONALDSON, Francis**, *Coal Mine Surveying, Mining Methods, Practical Shaft Sinking*, (three books bound as one), 1st ed., (New York, 1914), 81 pages, 120 pages, and 149 pages, respectively, 5.7" x 8.5". This comprehensive work on mining includes descriptions of mine surveying work and instruments. It also includes problems regarding mining surveying. **\$30**

**HARGER, Wilson G., and Edmund A. BONNEY**, *Handbook for Highway Engineers, 2nd ed., entirely revised and enlarged*, (New York, 1916), 4.3" x 6.8"; 609 pages, containing information ordinarily used in the design and construction of roads warranting an expenditure of \$5,000 to \$30,000 per mile; includes Part I, Principles of Design, and Part II, Practice of Design and Construction, with a 61-page chapter on surveying. **\$25**

**KISSAM, Philip**, *Surveying Instruments and Methods for Surveys of Limited Extent*, 1st ed., (New York and London, 1947), 243 pages of text, 141 pages of tables, well illustrated with photographs and diagrams, 6.2" x 9.3". This text is by the highly respected Associate Professor of Civil Engineering at Princeton University. Kissam's later *Surveying for Civil Engineers* became a quality reference for professional surveyors. **\$25**

**LELAND, Ora Miner**, *Practical Least Squares*, 1st ed., (New York, 1921), 237 pages, 6.1" x 9.3"; contains practical problem solving with applications to triangulation, leveling, astronomy, and the derivation of empirical formulas; with appendices giving the principles of probability and the analytical derivation of the law of error. **\$30**

**LEWIS, Oscar**, *George Davidson, pioneer west coast scientist*, (Berkeley and Los Angeles), 1954. o.p. 146 pages, 19 photographs, 1 folded map, dust jacket, 6.2" x 9.4". This is the primary biographical work for the eminent Pacific Coast surveyor, geodesist, and astronomer. In 1867 Davidson made a reconnaissance of the Alaska coast and his 140-page published report influenced the subsequent acquisition of that territory. He also did much triangulation work in California. There are three mountains named after Davidson, located in San Francisco, Nevada, and the Aleutian Islands. There are also a Davidson Glacier and a Davidson Range in Alaska, and a Davidson Seamount off the California coast. **\$40**

**MARSHALL, R.B.**, *Triangulation in California, 1913-1915*, U.S. Geological Survey, (Washington, 1916), paperback, 84 pages, 5.9" x 9.2"; covers work in Sonoma, San Bernardino, Merced, Stanislaus, and other counties; gives positions and descriptions; shows types of marks; lists personnel, etc. **\$10**

**McCULLOUGH, Ernest**, *Practical Surveying, for Surveyor's Assistants, Vocational, and High Schools*, (New York, 1915), 401 pages, one folding plate plus many diagrams and illustrations, includes treatment of instruments and surveying methods, plus a good 40-page chapter on surveying law and practice, 5.1" x 7.5". This text includes Justice Cooley's widely publicized 19th century treatise on the judicial function of surveyors, and a second 1902 paper by Wm. F. Kern on the law of boundary surveys. **\$35**

**PICKWORTH, Charles N.**, *Instructions for the Use of A.W. Faber's Improved Calculating Rule*, (A.W. Faber, London), n.d., c. 1902; 42 pages of text plus 14 folding plates; 6.5" x 9.4"; original card covers. The manufactory was first established in 1761 and by this date had branches in Germany, France, and the United States. **\$40**

**PICKWORTH, Charles N.**, *Instructions for the Use of A.W. Faber's Improved Calculating Rule*, (A.W. Faber, Newark, NJ), n.d., c. 1904; 53 pages of text plus 14 folding plates showing 55 figures; 6.4" x 9.4"; original card covers with chip missing from front upper right corner. The manufactory was first established in 1761 and by this date had branches in Germany, France, and the United States. **\$40**

**ROBINSON, W.W.**, *Land in California, the Story of Mission Lands, Ranchos, Squatters, Mining Claims, Railroad Grants, Land Scrip, Homesteads*, (Berkeley, Los Angeles, London, 1979), 291 pages, paperback, 5.4" x 8.5", first published as hardback in 1948. This book is a valuable aid to any California surveyor involved in analyzing early land titles. The author was a vice president of the Title Insurance and Trust Co., Los Angeles. **\$15**

**ROOT, Oren** [Editor], *A New Treatise on Surveying and Navigation, Theoretical and Practical: With use of Instruments, Essential Elements of Trigonometry, and the Necessary Tables*, (New York, 1867), part of Robinson's Mathematical Series, 5.6" x 8.3"; 393 pages of text, 123 pages of tables, and Gurley's 1866 price list are included; contains illustrations and descriptions of Gurley compass, transits, wye level, and solar compass; topics include rectangular surveying, areas, dividing land, triangular surveying, harbour surveying, topographical surveying canal and road surveying, public lands, survey bill (legal description), navigation, and others; some rubbing on the hinges and small leather chips missing from top and bottom of spine, light foxing, otherwise a very nice copy. **\$85**

**SEYMOUR, Silas**, *Annual Report of the State Engineer and Surveyor, on the Canals of New York, for the year 1857., made January 15, 1858* (Senate, No. 15), 192 pages; fancy decorative cover w/gold lettering; 4 folding plates showing profiles of Black River Canal and Erie Canal; contains text of report and numerous supporting documents; 5.9" x 9.2". **\$40**

**SIPE, Henry F.**, *Compass Land Surveying, A Guide for surveyors, attorneys, landowners and others*, (Parsons, West Virginia, 1974), 227 pages, 5.8" x 8.8", a well written and comprehensive text on compass surveying, legal elements of surveying, surveying as a career, and practical considerations. A highly recommended modern text that is now seldom seen. Like new condition. **\$30**

**STALEY, W.W.**, *Introduction to Mine Surveying*, (Stanford, CA, 1939), reprint of 1958, 275 pages, 5.3" x 8.0"; a good primer intended as a textbook; numerous diagrams and photographs. **\$16**

**STEWART, Lowell O.**, *Public Land Surveys, History, Instructions, Methods*, (Minneapolis, 1935), reprinted 1976 by Buckner & Madson; 5.9" x 8.9", 202 pages, hardbound, an excellent source of historical information on the method of early government public land surveys. **\$30**

**STRATEMEYER, Edward**, *Joe the Surveyor*, (Boston, 1903), 248 pages and 4 photographic plates, 5.1" x 7.5", children's story book first published in 1894 about a lad who serves as a surveyors assistant; illustrated cover showing young man with older man in office. **\$25**

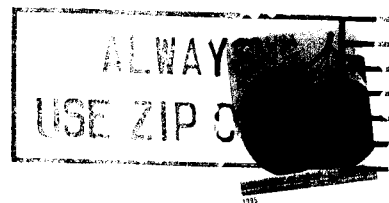
**THOMSON, Don W.**, *Men and Meridians, The History of Surveying and Mapping in Canada*, Vol. 1, Prior to 1867, (Ottawa, 1966), 6.7" x 10", 343 pages, illustrated with numerous maps, drawings, and photographs in both color and black and white. **\$30**

**TRACY, John Clayton**, *Plane Surveying and Exercises in Surveying in Surveying for Field and Office Work*, 2 books published as one, (New York, 1906,1907), reprinted 1936, 794 pages of text and tables, and 168 pages of exercises, 4.7" x 7.0", with illustrations, photographs, and one folded plate. **\$40**

**TROWBRIDGE, J.T.**, *The Young Surveyor; or, Jack on the Prairies*, (Philadelphia, 1903), 200 pages with 21 engraved plates; children's story book first published in 1873; nice condition, rare. **\$30**

**TRUMBULL, Loyal Wingate**, *A Manual of Underground Surveying*, (New York, 1910), 1st ed., (first printing 1908), 251 pages, numerous diagrams, illustrations and photographs, 14 mining diagrams on translucent paper, 6.5" x 9.4"; a very comprehensive treatise with information on conventional, mining, and solar instruments, underground practice, field notes, mapping, techniques of various professional engineers, and a mineral surveyor's examination. **\$45**

THE COMPLEAT SURVEYOR  
10 HEATHER WAY  
MILL VALLEY, CA 94941



UNDELIVERED  
TO ADDRESSEE