

THE COMPLEAT SURVEYOR



Illustration from *The Practical Surveyor* by Samuel Wyld (1760)

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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. For shipping, please include \$4 for the first book ordered, and \$2 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.

POB

POB magazine has published a number of historical book reviews authored by my dad during the last year. POB recently changed editors. If you would like to see the historical book reviews continue, please call the new editor at (810) 362-3700 .

WEB CATALOGUE /EMAIL

My catalogue now appears on the internet at "<http://pw1.netcom.com/~russuzes>" I update the web catalogue about 10 days after I send our my catalogue by regular mail. I hope to put book reviews and other interesting information on my web pages as well. For now, it is just my catalogue plus a few additional items thrown in. My 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

ONE OF THE FIRST AMERICAN SURVEYING BOOKS

MOORE, Samuel, *An Accurate System of Surveying*, (Litchfield, CT, 1796), 5.6" x 9.2", 131 pgs., illustrations, tables and diagrams, leather binding with some cracking to hinges; light foxing; some partial removal to blank papers inside back cover. First and only edition. Moore's treatise is reportedly the first substantive and meaningful American work on surveying. He worked in America as a surveyor for over 30 years before writing this book. The preface states as his reason for writing "The original Surveys of this Country, so far as my Knowledge...extends, are very confused and incorrect; an Unhappiness, perhaps, generally attending the Surveys of the new Settlements, -- the Cheapness of Lands superseding the Necessity of Precision, but afterwards opens a door for endless Litigation." A very difficult to find and significant book (a NY dealer sold a copy in fine condition for approximately \$1400 several years ago). **\$425**

1711 BOOK BY MARTINDALE

MARTINDALE, Adam, *The Country Survey-Book: or, LAND-METER'S Vade-Mecum. Wherein the Principles and Practical Rules for Surveying of Land, are so plainly (tho' briefly) delivered, that any one of ordinary parts (understanding how to add, subtract, multiply and divide,) may by the help of this small Treatise alone, and a few cheap Instruments easy to be procured, Measure a parcel of Land, and with judgement and expedition of it, and give up the Content thereof, With an Appendix*, 8th ed., (London, 1711), first published in 1682, 3.5" x 6.0", 119 pages with 3 folding plates showing 39 figures; plus a 37-page appendix dated 1710 containing 12 problems on compound interest and annuities; secure leather binding; this scarce little work includes information on how to become a surveyor by self-study. According to E.G.R. Taylor, Martindale was a nonconformist preacher who eked out a living as a mathematical practitioner. Martindale's small and simple text was apparently quite popular. He provided general instructions for the surveyor in his book, which were later passed on in modified form by the land office in the manuals for surveyors. Richeson states that Martindale's book evidences the poor level of instructions given to young surveyors during the last half of the 17th century. Martindale relied primarily on surveying by the chain, although he included descriptions of instruments, especially the plain table. Tough to find early 18th century book. **\$500**

SCARCE MASSACHUSETTS SURVEY

TRIGONOMETRICAL SURVEY OF MASSACHUSETTS, *Tables of Bearings, Distances, Latitudes, Longitudes, &c. ascertained by the Astronomical and Trigonometrical Survey of Massachusetts*, (Boston, 1846), 7.0" x 10.8", 73 pages with one folding plate titled "Plan of the Principle Triangles of the Trigonometrical Survey of Massachusetts." The work consists of a 22 page introduction and history of the survey plus tables giving positions of numerous trigonometrical stations. The field work and mapping were conducted between 1831 and 1844, principally under the direction of the noted scientist, Simeon Borden. Some of Borden's devices and methods were later adopted into practice by the U.S. Coast Survey. Discrepancies with the state's inaccurate town surveys were noted and corrections made. A rare copy of the results of this important survey. Paperback with cracking of hinges and edges of binding; plate has folding creases but no tears. **\$175**

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. In the 1800's different versions of Gibson were published by Americans. Most of these editions were by either James Ryan or John D. Craig.

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. 8th ed., (Philadelphia, 1803), 5.5" x 8.8", original leather binding with some cracking to hinges; 288 pages of text plus 152 pages of tables; 13 folding plates, light foxing. **\$145**

The Theory and Practice of Surveying; containing All the Instructions Requisite for the Skillful Practice of the Art. Newly Arranged, Improved, and Enlarged with Useful Selections, and a New Set of Accurate Mathematical Tables, by James Ryan, Teacher of Mathematics, (New York, 1828), 5.5" x 8.9", 251 pages of text plus 184 pages of tables; 14 folded plates, interior shows foxing and browning as usual, exterior leather cover shows some scuffing. **\$135**

INSTRUMENT MANUALS AND CATALOGS

- DIETERICH-POST CO.**, *Catalog*, (San Francisco, 1960), 7.7" x 11.0"; 290 pages; this company was a supplier and handled selected surveying instruments by Buff & Buff, Fennel, and David White, plus Lufkin tapes, Pickett slide rules, Wrico lettering sets, Vemco and Universal drafting machines, and other name brand items. **\$35**
- EUGENE DIETZGEN CO.**, *Catalogue and Price List*, 7th ed., (Chicago, 1904), 5.8" x 8.7", 411 pages, includes drawing materials, slide rules, and surveying instruments; hundreds of illustrations, 4" of the cloth outer spine is missing & some light water damage to outer edges of the first 20 leaves, else good; pre-1910 editions by this noted maker are scarce. **\$80**
- EUGENE DIETZGEN CO.**, *A Catalog of Technical, Industrial, Engineering and Scientific Publications*, (Chicago, 1915), 5.5" x 8.4", 231 pages, paperback binding, lists hundreds of scientific books in print including 13 surveying books. **\$15**
- DIETZGEN CORP.**, *Catalog 3, Surveying Equipment and Supplies*, (Des Plaines, IL, 1980), 8.5" x 11.0", 45 pages, thin vinyl like cover; this is the surveying portion of the 4 individual catalogs that shows the Dietzgen line. **\$10**
- GURLEY, W. & L.E.**, *Catalog of Gurley Instruments for Civil, Mining and Hydraulic Engineers and Land Surveyors*, (Troy, 1915), 6.1" x 9.1", 223 pages, original cardstock covers; while not as common as the Gurley manuals, the catalogs are complete with illustrations and prices of surveying and drafting instruments; this 1915 edition is one of the last to show the solar compass as it does not appear in the 1920 edition. **\$85**
- 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. **\$40**
- GURLEY, W. & L.E.**, *Catalog of Gurley Engineering Instruments*, 31st ed., (Troy, 1920), with printed prices plus a separate inset revised price list effective August 20, 1920 and a list of discontinued instruments; 6.1" x 9.0", 267 pages, original illustrated cardstock cover showing an engineer on a cliff edge viewing through a transit; illustrated with the Gurley line of surveying and drafting instruments. **\$85**
- KEUFFEL & ESSER**, *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 cover boards are cracked front and back, contents good. **\$80**
- KEUFFEL & ESSER**, *Catalog*, 35th ed (New York, 1915), 6.1" x 8.8", 566 pages, with many illustrations plus a few color plates. **\$85**
- KEUFFEL & ESSER**, *Catalog*, 40th ed., (Hoboken, 1944), 6.0" x 9.1", 379 pages, with descriptions and illustrations of the K&E line of surveying and drafting instruments and slide rules, complete with a 62-page price list dated Dec. 1, 1948. **\$45**
- KEUFFEL & ESSER**, *Catalog*, 42nd ed., (Hoboken, 1954), 6.0" x 9.0", 475 pages, with descriptions and illustrations of the K&E line of surveying and drafting instruments and slide rules. **\$40**
- C.F. PEASE CO.**, *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**

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, Together with a Treatise on Surveying, 2nd ed., (Hartford, 1808), 5.5" x 8.8", 80 pages of text and 88 pages of tables, all 4 plates present although showing damage to outer right edges and a small amount of printed matter missing from that edge on plate 4, foxing throughout, outer cover hinges separated. **\$110**

A System of Geometry and Trigonometry, Together with a Treatise on Surveying, 3rd ed., (Hartford, 1813), 5.3" x 8.9", 80 pages of text and 88 pages of tables, missing folding plates 1 & 3 of 4 plates, front cover detached, foxing to text. A very collectible early American text at a bargain price. **\$30**

A System of Geometry and Trigonometry, with a Treatise on Surveying, 4th ed., (Hartford, 1818), 5.3" x 8.8", 80 pages of text and 88 pages of tables, all 4 folding plates; cover hinges intact with partial cracking and some tearing away of leather front and back. **\$65**

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". Nice condition. **\$75**

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.

The book was first published in 1830. There are six versions of the book with changing titles. These different versions appeared in 1830, 1835, 1841, 1851, 1870, and 1883. There were several intervening reprints. The last known printing was in 1898.

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. Very collectible and bargain priced. **\$40**

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**

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 for the date of its publication 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 Gillespie's death in 1868 and in the 1880's published them in one volume. In the 1890's the two works became so voluminous that they were again published in separately bound volumes. Gillespie and Johnson (below) surveying books were the best widely-distributed texts of the 1850 to 1900 time period.

A Treatise on Surveying Comprising the Theory and the Practice, revised and enlarged by Cady Staley, (New York, 1892), this 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, 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, 5th ed., (New York, 1889), 62." x 9.4"; 703 pages total including 576 pages of text plus appendices and index; 3 folding plates, ex copy of Board of Trade; good condition except for two blank pages in front which are nearly detached, and browning to outer perimeter of text; an early edition of this excellent work first published in 1886. **\$45**

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**

GEODESY

GORE, J. Howard, *Elements of Geodesy*, 2nd ed., revised and corrected, (New York, 1889), note 1st ed. was in 1886, 6.4" x 9.4", 282 pages, illustrated, scuffing to edges of binding, includes comprehensive chapter on history of geodesy. Gore was a recognized authority and the 1902 USC&GS bibliography of geodesy lists 17 works by him. **\$60**

INGRAM, Edward L., *Geodetic Surveying and the Adjustment of Observations*, (New York & London, 1911), 6.6" x 9.4", 389 pages, illustrated, an excellent work on the subject; Ingram was a professor at the University of Pennsylvania. **\$45**

VANICEK, Petr, and Edward J. KRAKIWSKY, *Geodesy: The Concepts*, 2nd ed, (North-Holland, 1986), 6.4" x 9.5", 697 pages, paperback, the authors are university professors at New Brunswick and Calgary; good comprehensive text. **\$40**

MUELLER, Ivan I., *Spherical and Practical Astronomy as Applied to Geodesy*, (New York, 1969), 6.5" x 9.5", 615 pages, this is the primary source book in its field. **\$65**

HOSMER, George L., *Geodesy including Astronomical Observations, Gravity Measurements, and Method of Least Squares*, 1st ed, (New York, 1919), **\$40**

POPPELWELL, William Charles, *The Elements of Surveying and Geodesy*, (London & New York, 1915), 5.9" x 9.0", 244 pages, scuffing to cover edges, more plane surveying than geodesy. **\$35**

MERRIMAN, Mansfield, *Elements of Precise Surveying and Geodesy*, (New York, 1903) 1st ed, 1st thousand, 6.0" x 9.2", 261 pages, includes section on history. **\$45**

CRANDALL, Charles, *Text-Book on Geodesy and Least Squares*, (New York & London, 1912), 1st ed, 2nd thousand, 6.1" x 9.2", 329 pages, some cover scuffing and water spotting to back cover. **\$45**

SHARP, H. Oakley, *Geodetic Control Surveys*, 2nd ed, (New York & London, 1943), 8.8" x 11.3", 132 pages, Sharp was a professor at Rensselaer Polytechnic Institute, white spots on front cover. **\$40**

CLARK, Colonel A.R., *Geodesy*, (Oxford, 1880), 6.0" x 9.0", 356 pages, good treatment of the subject including a chapter on historical geodetic surveys; binding secure although cracking inside rear cover. **\$55**

U.S. COAST & GEODETIC SURVEY

Tables for a Polyconic Projection of Maps, based upon Clarke's Reference Spheroid of 1866, 2nd ed., USC&GS Special Publication No. 5, (Washington, 1900), 9.4" x 11.8", 189 pages, hardbound, including a 1912 letter from the USC&GS to the original owner giving an explanation of different datums used on charts. **\$35**

The Eastern Oblique Arc of the United States and Osculating Spheroid, USC&GS Special Publication No. 7, by Chas. A. Schott, (Washington, 1902), 9.3" x 11.7", 394 pages, contains details about base lines, triangulation, astronomic measures, and determination of an osculating spheroid; 38 illustrations; ex lib., hardbound. **\$85**

The Figure of the Earth and Isostasy from Measurements in the United States, by John F. Hayford, (Washington, 1909), 9.3" x 11.6", 178 pages, 16 illustrations including 6 folding; hardbound. **\$60**

Supplementary Investigation in 1909 of the Figure of the Earth and Isostasy, by John F. Hayford, (Washington, 1910), 9.2" x 11.5", 80 pgs, 6 illustrations including 5 folding; ex lib., hardbound. **\$45**

Latitude Observations with the Photographic Zenith Tube at Gaithersburg, MD., USC&GS Special Publication No. 27, by Frank E. Ross, (Washington, 1915), 9.0" x 11.5", 127 pages and 18 illustrations including 9 large photographs; paper cover with minor tearing damage to outer spine. **\$35**

Investigations of Gravity and Isostasy, USC&GS Special Publication No. 40, by William Bowie, (Washington, 1917), 9.2" x 11.5", 196 pages, 18 illustrations including 9; ex lib., paper cover w/coating. **\$40**

U.S. GEOLOGICAL SURVEY

BIRDSEYE, C.H., *Topographic Instructions of the United States Geological Survey*, Bulletin 788, (Washington, 1928), 432 pages, paperback, 5.8" x 9.2", numerous photos and diagrams. This work includes plane table surveying in addition to the newly developing science of making maps from aerial photographs. **\$35**

GANNETT & BALDWIN, *Results of Spirit Leveling in Ohio, 1898-1908*, Bulletin 411 (Washington, 1909), paperback, 147 pages. **\$10**

MARSHALL, R.B., *Results of Spirit Leveling in Michigan, 1911 and 1913*, Bull. 559 (Washington, 1914), paperback w/chips, 79 pgs. **\$10**

SEMPER, C.H., *Results of Spirit Leveling in California, 1896-1907*, Bulletin 342 (Washington, 1908), paperback w/chips, 172 pages. **\$10**

Note: Early USGS Leveling results are also available for Arizona, Colorado, Hawaii, Idaho, Maine, Nevada, New Mexico, Oregon, South Dakota, Texas, Utah, Washington, Wyoming. They are all \$10 each.

U.S. NAVY HYDROGRAPHIC OFFICE

LITTLEHALES, G.W., *The Methods and Results of the Survey of the West Coast of Lower California by the Officers of the U.S.S. "RANGER" during the Season of 1889 and 1890*. (Washington, 1892), 6.1" x 9.2", 237 pages, this report covers the reconnaissance, main and secondary triangulation, instruments, hydrography, magnetic work, chronometers, determination of geographic positions, astronomic work for latitude and longitude, base measurement, tidal observations, and chart construction. Reports that cover the entire operation of coast chart surveying in one volume are rare. This book has numerous illustrations and folding maps in addition to 21 medium-resolution photographs showing instruments being used in the field surveying operations; the cover has scuffing to the outer edges of binding, otherwise good condition. **\$90**

THE WHEELER SURVEYS

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 and 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. **\$100**

THE PUBLIC DOMAIN

DONALDSON, Thomas, *The Public Domain. Its History*, with Statistics, (Washington, 1883), 1,343 pages, 6.2" x 9.4", ex-lib copy, originally with 18 maps and diagrams, but this copy lacks 5 maps and another 5 are damaged; a few papers are disbound and some ink damage to title page and endpapers; tape repair to binding; despite its shortcomings, this example is still a great book. It contains the hard to find 1881 USGLO surveying instructions with all 5 maps and diagrams present. The volume also contains a wealth of information about the public land system. A fantastic technical resource. **\$155**

DOMINION OF CANADA

Manual of Instructions for the Survey of Dominion Lands, 8th ed., (Ottawa, 1913), 4.8" x 7.5", 210 pages, comprising 134 pages of instructions and the remainder being appendices, describes the method of performing dominion surveys under the rectangular system; with illustrations; flexible covers with some loosening to binding. Original owner Walter Wilkie, L.S., New Westminster, B.C. **\$65**

MISCELLANEOUS SURVEYING & RELATED

AMERICAN SOCIETY OF PHOTOGRAMMETRY, *Manual of Photographic Interpretation*, (Washington, 1960), 7.1" x 10.3", 868 pages, written for persons involved in the extraction of information from aerial photographs. **\$35**

BAGLEY, James W., *Aerophotography and Aerosurveying*, 1st ed., (New York & London, 1941), 6.4" x 9.2", 324 pages, ex lib. **\$30**

BARTON, Samuel Marx, *Elements of Plane Surveying (Including Leveling)*, 1st ed, (Boston, 1904), 6.5" x 9.4", 255 pages, including 144 pages of text and 111 pages of tables and appendix; outer cover damaged on spine and hinges with portions or outer cloth missing; interior good except one leaf has a triangular 3" piece torn off but included. **\$30**

DUNCAN, Andrew, *The Practical Surveyor's Guide. Containing the Necessary Information to Make any Person of Common Capacity a Finished Land Surveyor, Without the Aid of a Teacher*. revised and enlarged, (Philadelphia, 1906), 214 pages with 72 engravings; 5.3" x 7.5"; topics include right angle and triangular measurements, plus survey methods for the U.S. public land surveys according to the 1890 government manual. **\$45**

I.C.S., *Mine Surveying and Mapping*, (Scranton, 1899), comprising 194 pages of text within the larger hardback volume, *A Treatise on Metal Mining, Vol. 1*; 6.1" x 9.1"; mapping, compass, transit & level surveys as related to mine surveying; good illustrations; dime-size tear damage to outer top of spine. **\$22**

JADOWSTI, Mar, *Leitfaden der Vermessungskunde*, (Hannover, 1927), 6.4" x 9.0", 112 pages with 100 figures, 5 tables and 2 rear cover inserts; some figures are in color; a German text with handwritten notes on some pages; board covers with cloth spine, with paper separation inside front cover at the hinge. **\$25**

JORDAN, Dr. Wilhelm, *Handbuch der Vermessungskunde, II Zweiter Band, Feld- Und Land-Messung, Sechste Erweiterte Auflage*, Bearbeitet von Dr. C. Reinhertz, (Stuttgart, 1904), 6.5" x 9.2", 863 pages of text plus 47 pages of appendix; we don't read German but do recognize this as a classic top-of-the-line work on surveying and surveying instruments and believe it to be a 2nd edition of a work originally published in 1897; numerous steel engravings illustrate surveying instruments, including geodetic theodolites, photographic theodolites, levels, signals, towers, rods, slide rules and calculators; interior in good condition, exterior has marble boards with scuffing on edges plus wear and tear damage to the top one inch of the leather

spine. Dr. Jordan was a leading geodesist and a prolific writer on the subject. The *Bibliography of Geodesy* in the USC&GS Annual Report for 1901-02 lists 112 published works by Jordan. **\$115**

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 USC&GS 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. **\$45**

PENCE AND KETCHUM, *Surveying Manual, A Manual of Field and Office Methods for the use of Students in Surveying*, 3rd ed., (New York, 1902), this work was originally published in 1900; 4.5" x 6.9", the small size made it ideal for taking into the field; chips missing from top and bottom of spine, binding a little loose but intact. **\$35**

PENCE AND KETCHUM, *Surveying Manual, A Manual of Field and Office Methods for the use of Students in Surveying*, 5th ed., (New York, 1932), 5.3" x 7.7", 363 pages; the preface states the original edition of the book was so popular it was almost immediately adopted as a text by more than 60 engineering colleges. **\$30**

RAYNER, William Horace, *Elementary Surveying*, Volume I, 2nd ed., (New York, 1947), 5.0" x 7.7", 419 pages, good condition. **\$25**

Report of the Committee on Coinage, Weights, and Measures, Part 1, On the Adoption of the Metric System of Weights and Measures, and Part 2, on Metric Coinage, House. Rept. No. 12, 46th Cong., 1st Sess.; (Washington, 1879), 6.0" x 9.2", 202 pages on metric measure and 6 pages on coinage; hardbound; this work contains a large amount of information for persons interested in 19th century studies on adopting the metric system. **\$30**

RUBEY, LOMMEL & TODD, *Engineering Surveys*, (New York, 1940), 5.0" x 7.8", 320 pages of text and 141 pages of mathematical tables and miscellaneous data; a nice work for the period; good condition. **\$25**

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**

SEYMOUR, Silas, *The Final Results of the Triangulation of the New York State Survey, together with a Description of the Methods Employed. Also, the Eleventh Annual Report of the Commissioners of the State Survey*. (Albany, 1887), 9.4" x 11.8", 213 pages including 113 pages of reports and 95 pages of appendices; six folding maps, numerous illustrations and diagrams, six superb full-page steel engravings of geodetic surveying instruments; content and binding secure and in good condition. **\$200**

TRACY, John Clayton, *Plane Surveying and Exercises in Surveying for Field and Office Work*, 2 books published as one, (New York, 1906, 1907), reprinted 1927, 794 pages of text and tables, and 168 pages of exercises, 4.2" x 7.0", with illustrations, photographs, and one folded plate; inside rear cover has handwritten geometrical notations and some soiling; former owner C. Neubauer, San Francisco. **\$35**

TRAUTWINE, John C., *A Method of Calculating the Cubic Contents of Excavations and Embankments, by the Aid of Diagrams.*, 9th ed., (New York, 1887), 71 pages, 6.0" x 9.1"; first published in 1851, this work contains text, tables and graphs. **\$25**

WEBB, Walter Loring, *Plotting and Topography, Instruction Paper*, American School of Correspondence, (Chicago, 1907), hardbound, color plate, 65 pages plus exam paper, 6.7" x 9.7"; interior binding loose; a good basic primer. **\$12**

WHITE, C. Albert, *A History of the Rectangular Survey System*, (Washington, 1982), 9.5" x 11.7", 774 pages, new condition; this collection of surveying instructions and related information from 1785 to 1910 is a must for persons practicing in the public land states. **\$70**

TOOLS & INSTRUMENTS

PRISMATIC COMPASS, marked on top cover: Industria Argentine; Lutz, Ferrando & Co S.A.; Buenos Aires. The compass is brass, mostly finished in black, and is 3½" outside diameter with a 3" silver-colored rotating compass ring, possibly aluminum. The case cover mounts on both the top and bottom. The hinged eyepiece has green and red filters, and there is a sliding mirror on the hinged sight vane. The mirror is bright with complete silver. The rotating, graduated ring is locked in place when the sight vane is folded down. It can also be locked by pushing a button on the outside case. The underside of the case is threaded for a staff mount, not included. The instrument is in nice condition with slight wearing away of the black finish, particularly on the sides of the case. It comes with a leather carrying case & strap. **\$180**

WILD 2-METER SUBTENSE BAR, serial No. 53685, with case, no tripod. This Subtense Bar is possibly c.-1950's, with attached leveling base and no optical plummet. Good condition, noting there are some very tiny paint chips, and one approximately ¼" paint chip. When used with a 1" theodolite this instrument can achieve 1:10,000 accuracy for distances up to about 500 feet. **\$300**

UNIQUE HISTORIC LINK CHAIN

WING PATTERN LINK CHAIN, late 18th or early 19th century, 2-Pole (or 2-Perch), 33 feet long with 40 links, each 9.9" long; iron wire links with wear showing in rings; rings pressed shut; no tally marking tags; handles are made from the same gauge wire as the links, with the grips hammered flat for comfort. The design was first described in Vincent Wing's 1664 treatise on surveying. Wing claimed this pattern was particularly speedy for calculating area when given in square perches and decimals. His technique was to count only half the number of links before calculating area. For example, when using a Wing chain the area of a rectangular tract 4 perches 6 links by 8 perches 14 links would be $4.3 \times 8.7 = 37.41$ square perches. As land areas became more generally reported in acres, the Gunter chain was preferred. **\$500**

SMITH'S FOUNTAIN DRAWING PEN, *Keuffel & Esser Co.*, 1915 K&E catalog No. 531; a conventional drafting ruling pen except having a rubber ink reservoir in the handle; patented design; good condition with original leather case; rare - not shown in 1913 or 1921 editions. **\$40**

LATE ADDITIONS

Ninth Annual Report of the Secretary of the Connecticut Board of Agriculture, 1875-'76, (Hartford, CT, 1876), 6.1" x 9.2", 418 pages, this State of Connecticut document contains important reports relating to surveying and land boundaries, including common roads, laws of roads and boundaries, fences and division of farm lands, and water supply and drainage. **\$70**

C.L. BERGER & SONS, (Handbook and Catalog) *Engineering, Surveying & Mining Instruments*, Parts I & II, 38th ed, (Boston, 1924), 253 pages, 6.4" x 9.1"; contains descriptions and instructions for using instruments plus catalog and price list; numerous illustrations; contents very good, binding secure; contains descriptions of the instruments and how to care for and adjust them. **\$70**

EUGENE DIETZGEN, *Thirteenth Edition Catalog*, (Chicago, 1928), 6.0" x 9.0", 496 pages, with 63 page price list dated 1929, profusely illustrated, attachment of sample drafting papers inside front cover, price list 19 dated 2/1/1937 inside rear pocket, contents very good and binding secure. **\$60**

U.S. GENERAL LAND OFFICE, *Manual of Surveying Instructions for the Survey of the Public Lands of the United States and Private Land Claims*, (Washington, 1902); 1908 reprint, 203 pages, including 145 pages of instructions, 40 pages of specimen field notes, plus appendices and 8 folded plates, 6.2" x 9.4"; some darkening. **\$65**

Report of the Commissioner of the General Land Office for the year 1870, (Washington, 1872), 509 pages, 6.0" x 9.1", includes separate reports by the individual U.S. Surveyors General of the various districts, descriptions of state boundary surveys, etc. **\$70**

Report of the Commissioner of the General Land Office for the year 1872, (Washington, 1872), 318 pages, 6.0" x 9.2", hard blue cover with some scuffing and staining to front, includes separate reports by the individual U.S. Surveyors General of the various districts. **\$60**

Circular from the General Land Office containing Regulations...to Facilitate the Adjustment...of Conflicting Claims to Lands within the Limits of the Grant to the Northern Pacific Railroad Company, (Washington, 1899), 5.7" x 9.2", 19 pages, pink printed wrappers. **\$40**

U.S. GENERAL LAND OFFICE, Part II, Reports of the Surveyors General, accompanying the Annual Report of the Commissioner of the General Land Office of November 29, 1845, (Washington, 1845), 6.1" x 9.8", 70 pages (pp. 43-114), stitched, untrimmed, slightly darkened & some staining; reports from districts of Ohio, Indiana, Michigan, Wisconsin, Iowa, Illinois, Missouri, Arkansas, and Florida. **\$40**

Letter from the Secretary of the Interior, April 25, 1888, ...relating to land matters involving the California Redwood Company and the Humboldt Redwood Company (Washington, 1888), 21 pages, 5.8" x 8.9", disbound and removed from gov't. volume; questions methods of land acquisition by companies. **\$8**

Letter from the Secretary of the Interior, May, 1880, ...relating to land dealings of Thomas McBride and lands he has acquired in Utah since 1869, and possible discrimination in favor of Mormons, (Washington, 1880), 5.9" x 9.0", 138 pages, disbound and removed from gov't. volume, fragile paper with chipping. **\$25**

SHALOWITZ, Aaron, Shore and Sea Boundaries, Vol. I, U.S. Coast & Geodetic Survey Publication 10-1, (Washington, 1962), 7.2" x 10.1", 420 pages, this work contains a wealth of information regarding the offshore boundary problems between the U.S. and the various states, and includes relevant principles of international law. A particularly valuable resource. First printing. **\$50**

SHALOWITZ, Aaron, Shore and Sea Boundaries, Vol. II, U.S. Coast & Geodetic Survey Publication 10-1, (Washington, 1964), 7.1" x 10.0", 749 pages, this treatise describes the early methods used in the early topographic and hydrographic surveys of the government; indispensable resource for those working with these materials; slight fading to a portion of front cover. **\$75**

PUTER, S.A.D., Looters of the Public Domain, written in collaboration with Horace Stevens, formerly with the Government Land Office, (Portland, 1908), **EMBRACING A COMPLETE EXPOSURE OF THE FRAUDULENT SYSTEM OF ACQUIRING TITLES TO THE PUBLIC LANDS OF THE UNITED STATES**, 7.2" x 10.5", 495 pages, original leather presentation binding with gilded edges, some scuffing to outer corners and to hinge bottoms and tops; this is one of the most important works about fraudulent government land operations and names the individuals and timber companies involved; Puter was leader of the Oregon land fraud ring and wrote the book about land corruption and survey fraud while in jail. **\$200**

DERBY, Lt. George H., Phoenixiana, (San Francisco, Grabhorn Press, 1937), A Collection of Burlesques & Sketches of John Phoenix: alias John P. Squibob, who was, in fact, Lt. George H. Derby, Corps of Topographical Engineers; edited by Francis P. Farquhar; Derby worked in the San Francisco Bay area and in San Diego; this is a collection of letters contributed to newspapers during the 1850's in early California; 6.8" x 9.7", 240 pages. **\$75**

KELSH PLOTTER MANUALS, (1) *The Kelsh Plotter*, (Baltimore, n.d.), 8½" x 11", 46 pages, yellow cardstock cover, giving operation of the instrument, and (2) *Calibration and Maintenance of the Kelsh Plotter*, 6" x 9", 23 pages, yellow cardstock cover. Both for **\$25**

Capt. A.A. HUMPHREYS & Lt. H.L. ABBOT, Report upon the Physics and Hydraulics of the Mississippi River, (Washington, 1876), Professional Papers of the Corps of Engineers No. 13, U.S. Corps of Topographical Engineers; this is a reprint with additions of an 1861 report; it contains detailed river surveys and presents a parabolic velocity curve; 691 pages plus 25 folding plates; 10.0" x 12.1"; bearing the signature of original owner George Davidson, May 30, 1881; Davidson was himself a noted scientist and an Assistant in the San Francisco office of the U.S. Coast & Geodetic Survey. Included with the report is an 8-page separately published article with printed wrappers by Humphreys and Abbot relating to the report titled, *Reply to Criticisms made by Dr. Hagen, Director General of Public Works, Prussia*, (New York, 1878), reprinted from Van Nostrand's Eclectic Engineering Magazine, January, 1878, also bearing Davidson's signature of the same date. Both documents are in nice condition. **\$125**

**THE COMPLEAT SURVEYOR
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