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OLD GUMMERE's SURVEYING Book Alsop Illus 1846

Item # 3524060832

[Books:Antiquarian & Collectible:Antiquarian:Science & Medicine](#)

Bidding is closed for this item.

[rescueblom](#) ([907](#) ★) is the winner.

Pay using PayPal.

Pay Now



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Payment Details

Item price	US \$36.00
United States Shipping and handling	US \$2.25
Shipping insurance per item (not available)	--

Payment Instructions

[No instructions.]

▶ **Buyer:** [rescueblom](#), If you're not sure how much to pay, you can [request the total](#) from the seller.

▶ **Seller:** [narbbooks](#), you may [create and send an invoice](#) to the buyer.



[\(to seller\)](#)
[\(to bidder\)](#)

Current bid **US \$36.00**
 Quantity **1**
 Time left **Auction has ended.**
 Started May-25-03 15:52:08 PDT
 Ends Jun-01-03 15:52:08 PDT

Starting bid **US \$25.00**
 # of bids **3** [Bid history](#)
 Location **Blue Bell, PA**
 Country/Region **United States /Philadelphia**
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If you are the seller or a high bidder - [now what?](#)

[narbbooks](#) ([863](#) ★)  **Power Seller**

Seller
(rating)

Feedback rating: 863 with 100% **positive** feedback reviews ([Read all reviews](#))

Member since: Nov-26-00. Registered in United States

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High
bidder

[rescueblom](#) ([907](#) ★)

Payment

PayPal, money order/cashiers check, personal check, Visa/MasterCard, or see item description for payment methods accepted.

► [PayPal](#): Fast, easy, secure payment. [Learn More.](#)



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Shipping

Buyer pays for all shipping costs, which are provided in the Payment Details section below. Seller ships internationally (worldwide).

Seller
services

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Description

"A Complete Key to Gummere's Surveying; in Which the Operations of All the Examples, Not Solved in That Work, Are Exhibited at Large Principally Designed To Facilitate The Labour of Teachers, And to Assist Those Who Have Not The Opportunity of Their Instruction," by Samuel Alsop. Published by Thomas, Cowperthwait & Co., Philadelphia 1846. Old brown marbled leather binding. Sections of the leather are missing and chipped along the spine, as pictured. Front joint is cracked. And there is an old burn mark on the front cover. The edges are rubbed. There is a small amount of very light foxing on some pages. Pages are all intact and in good, clean, sturdy conditions. Several fold-out illustrations at the back of the book. Previous owner's 1800s name written on front end page. The book measures 9.25" X 5.25" and has 84 numbered pages, not including the illustrations. U.S. winner to pay \$2.25 Media Mail or \$3.95 Priority Mail shipping. Int'l, including Canada, to pay choice of Air or Surface Mail. Please feel free to email with any questions. Good luck and thanks for looking.



COMPLETE KEY
TO
GUMMERE'S SURVEYING;

IN WHICH
THE OPERATIONS OF ALL THE EXAMPLES,
NOT SOLVED IN THAT WORK,
ARE EXHIBITED AT LARGE
PRINCIPALLY DESIGNED
TO FACILITATE THE LABOUR OF TEACHERS,
AND TO ASSIST THOSE
WHO HAVE NOT THE OPPORTUNITY OF THEIR INSTRUCTION.

BY SAMUEL ALSOP.

PHILADELPHIA:
THOMAS, COWPERTHWAIT & CO.
612 MARKET STREET.
KIMBER & SHARPLESS,
56 NORTH FOURTH ST.
1846.

KEY

TO

GUMMERE'S SURVEYING.

PLANE TRIGONOMETRY.

CASE I.

EXAMPLE 2. (Pl. 1, Fig. 1.)

Angle C = $183^{\circ} - A - B = 49^{\circ} 15'$.

As sin. A $70^{\circ} 32'$ - - - - -	Ar. Co.	0.007750
Is to sin. B $54^{\circ} 23'$ - - - - -		0.000680
So is BC 123 - - - - -		2.05001
To AC 103.4 - - - - -		2.01437

Angles,

As sin. A - - - - -	Ar. Co.	0.007750
Is to sin. C $49^{\circ} 15'$ - - - - -		0.82876
So is BC - - - - -		2.05001
To AB 21.97 - - - - -		1.03317

EXAMPLE 4. (Pl. 1, Fig. 2.)

Angle C = $90^{\circ} - A = 33^{\circ} 12'$.

As sin. C $33^{\circ} 12'$ - - - - -	Ar. Co.	0.20157
Is to sin. B 90 - - - - -		10.00000
So is AB 52.63 - - - - -		1.72063
To AC 99 - - - - -		1.50122
As sin. C - - - - -	Ar. Co.	0.20157
Is to sin. A $56^{\circ} 45'$ - - - - -		0.02210
So is AB - - - - -		1.72063
To BC 83 - - - - -		1.01082

BY SAMUEL ALSOP.

PHILADELPHIA:

THOMAS, COWPERTHWAIT & CO
253 MARKET STREET.

KIMBER & SHARPLESS,
50 NORTH FOURTH ST.

1846.

Then,

As distance 4th side 21.53
 Is to departure 15.58

So is radius

To sine chng. bearing $N 29^{\circ} 15' W$

Bearing 4th side $N 29^{\circ} 45' E$

And,

As radius

Is to sine chng bearing $25^{\circ} 13'$

So is distance

To diff latitude 31.07

PROBLEM IV.

EXAMPLE 2 (Pl. I. pg 22)

	Bearing	Dist.	S.	E.	N.	W.
FA	S. E.	31.80				
AB	N. 64 E.	1.28	1.23			19
BC	N. 39 1/2 E.	1.21	1.01			18
CD	N. 29 1/2 E.	32.35	31.30			108
DE	N. 37 W.	20.19	15.28			

CONTENT OF LAND.

And,
 As radius - - - - - Ar. Co. 0.66000
 Is to sine bearing $2^{\circ} 40'$ - - - - - 10.00000
 So is diff lat. - - - - - 1.68830
 To distance EA 45.59 - - - - - 1.63000

To find AEF:

AE 31.80 Ar. Co. 8.54127
 AE 45.58 Ar. Co. 8.50410
 EF 31.30 Ar. Co. 8.50410
 2)108.58

Half sum 54.29 - - - - - 1.73312
 Difference 22.34 - - - - - 1.35293
 2)19.8276

Cos. \angle AEF $12^{\circ} 6'$ - - - - - 0.97868

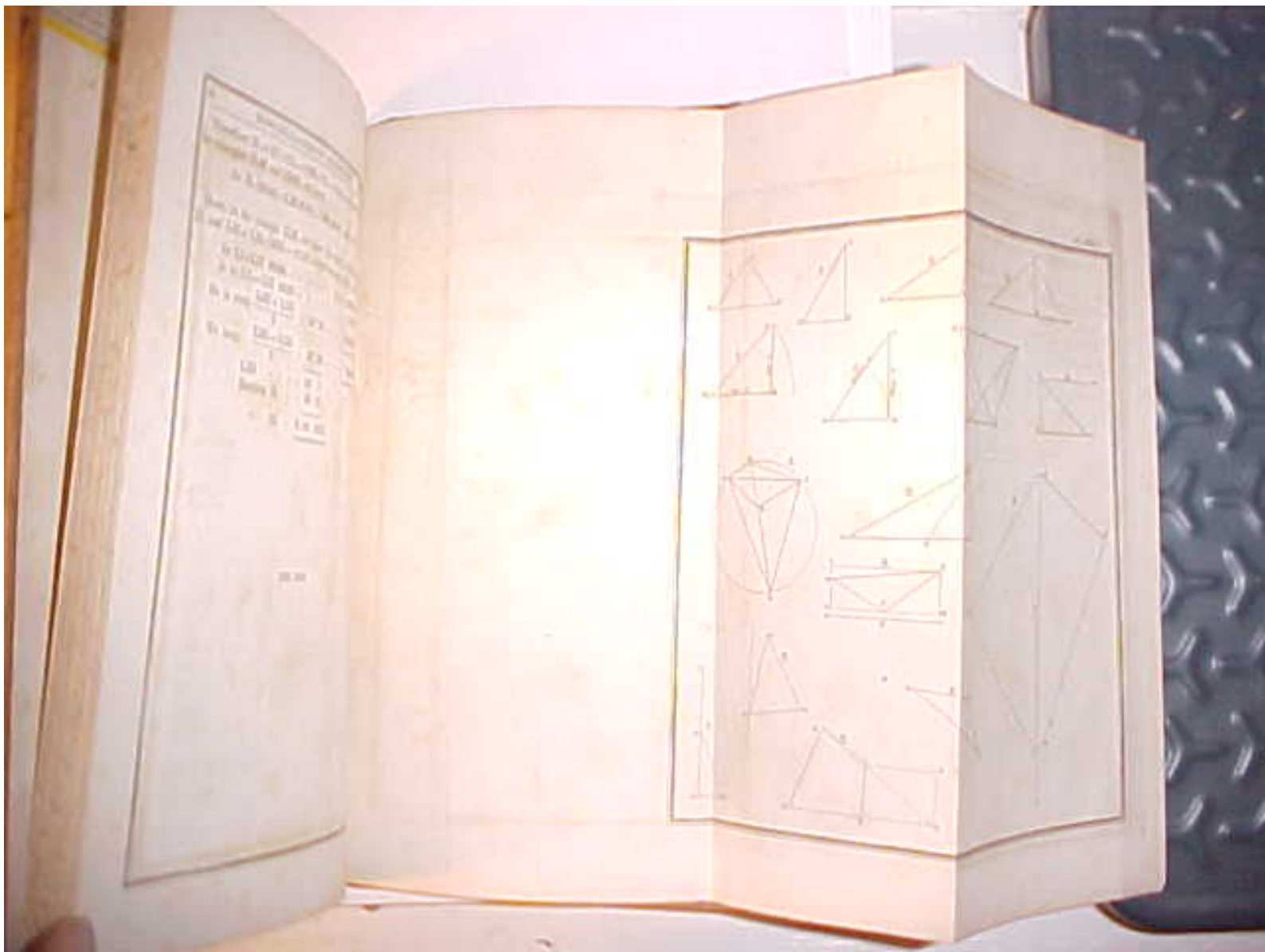
AEP $44^{\circ} 13'$

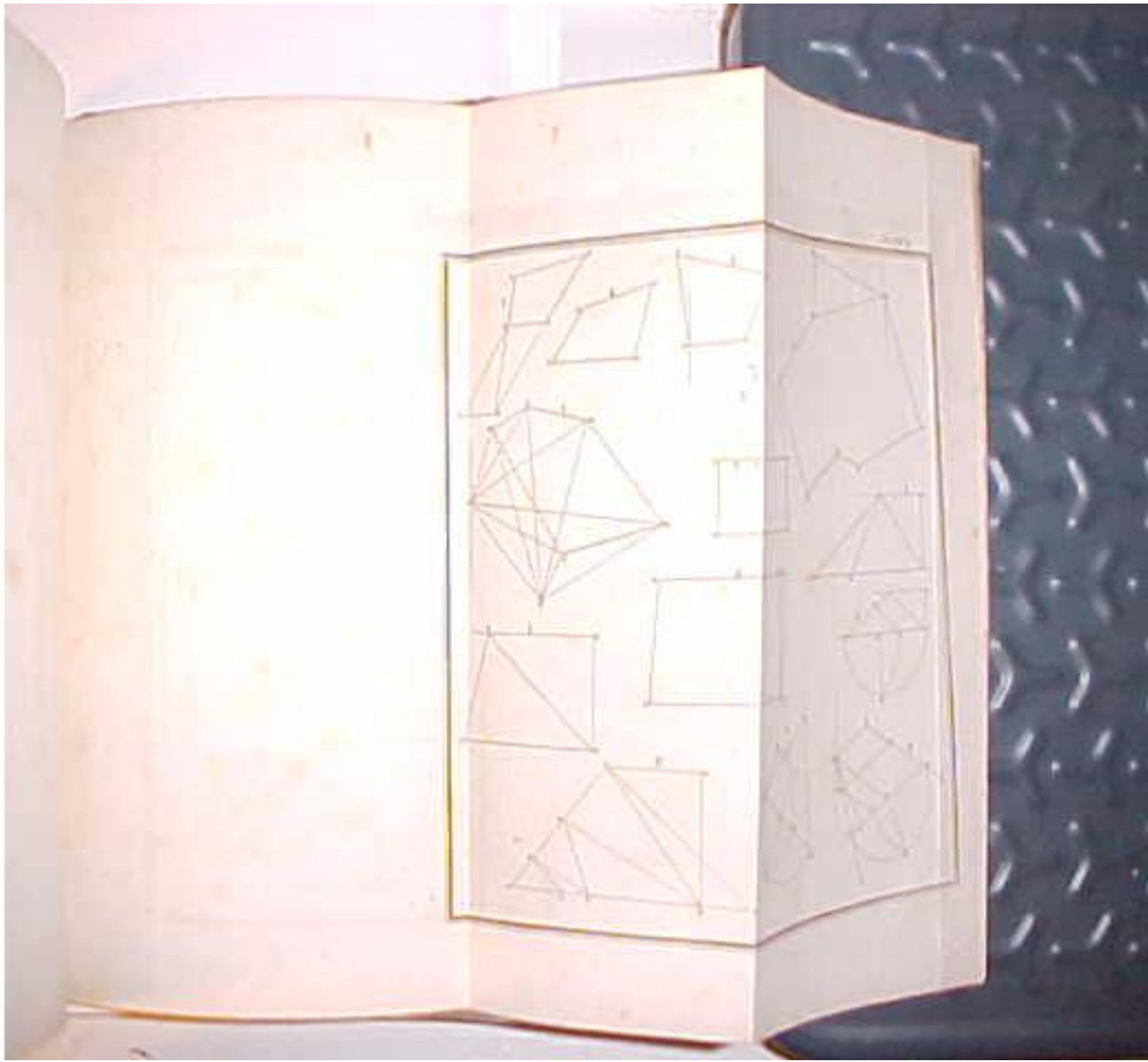
Bearing of EA - $2^{\circ} 40'$

EF $S. 47^{\circ} 1' W.$

To find EAF and bearing of FA:

As AP 31.80 - - - - - Ar. Co. 8.49707
 Is to EF 31.30 - - - - - 1.48554
 So is sin. AEF $44^{\circ} 13'$ - - - - - 0.84334
 To sin. EAF - $43^{\circ} 39'$ - - - - - 0.69643
 Bearing of EA $2^{\circ} 40'$
 - AP $48^{\circ} 31'$





EXAMPLE 4.

Line	From	To	Dist	Angle	Area	Remarks
1	1000	1000	1000	90	100000	...
2	1000	1000	1000	90	100000	...
3	1000	1000	1000	90	100000	...
4	1000	1000	1000	90	100000	...
5	1000	1000	1000	90	100000	...
6	1000	1000	1000	90	100000	...
7	1000	1000	1000	90	100000	...
8	1000	1000	1000	90	100000	...
9	1000	1000	1000	90	100000	...
10	1000	1000	1000	90	100000	...
11	1000	1000	1000	90	100000	...
12	1000	1000	1000	90	100000	...
13	1000	1000	1000	90	100000	...
14	1000	1000	1000	90	100000	...
15	1000	1000	1000	90	100000	...
16	1000	1000	1000	90	100000	...
17	1000	1000	1000	90	100000	...
18	1000	1000	1000	90	100000	...
19	1000	1000	1000	90	100000	...
20	1000	1000	1000	90	100000	...
21	1000	1000	1000	90	100000	...
22	1000	1000	1000	90	100000	...
23	1000	1000	1000	90	100000	...
24	1000	1000	1000	90	100000	...
25	1000	1000	1000	90	100000	...
26	1000	1000	1000	90	100000	...
27	1000	1000	1000	90	100000	...
28	1000	1000	1000	90	100000	...
29	1000	1000	1000	90	100000	...
30	1000	1000	1000	90	100000	...
31	1000	1000	1000	90	100000	...
32	1000	1000	1000	90	100000	...
33	1000	1000	1000	90	100000	...
34	1000	1000	1000	90	100000	...
35	1000	1000	1000	90	100000	...
36	1000	1000	1000	90	100000	...
37	1000	1000	1000	90	100000	...
38	1000	1000	1000	90	100000	...
39	1000	1000	1000	90	100000	...
40	1000	1000	1000	90	100000	...
41	1000	1000	1000	90	100000	...
42	1000	1000	1000	90	100000	...
43	1000	1000	1000	90	100000	...
44	1000	1000	1000	90	100000	...
45	1000	1000	1000	90	100000	...
46	1000	1000	1000	90	100000	...
47	1000	1000	1000	90	100000	...
48	1000	1000	1000	90	100000	...
49	1000	1000	1000	90	100000	...
50	1000	1000	1000	90	100000	...

PARTIAL OF LINE
PROBLEM 14
EXAMPLE 5. (71 & 82 S.)

How the various angles will be found to be as in the following proposition. Thus

To find Ang. of GA:	
As sin. FAC 90° 30'	Ac. Co. 828014
Is to sin. GFA 90° 30'	..... 828000
So is FA 90000	..... 120000
To GA	..... 120000
To find Ang. GB:	
As sin. FGB 90°	Ac. Co. 831140
Is to sin. GFB 90°	..... 830000
So is FB 90000	..... 120000
To GB	..... 120000
To find Ang. GC:	
As sin. GFC 97° 15'	Ac. Co. 819420
Is to sin. GFC 97°	..... 828000
So is FC 90000	..... 120000
To GC	..... 120000
To find Ang. GD:	
As sin. GDF 47° 30'	Ac. Co. 812204
Is to sin. GDF 47°	..... 830000
So is DF 90000	..... 120000
To GD	..... 120000
To find Ang. GE:	
As sin. GEP 50° 30'	Ac. Co. 822000
Is to sin. GEP 50°	..... 830000
So is EP 90000 120000
To GE 120000



Bidding

Bidding is closed for this item.

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If you're the seller or the high bidder - now what?

1. Contact each other. The seller ([narbbooks](#)) and the high bidder ([rescueblom](#)) should contact each other within three business days to discuss payment and shipping details.
2. Leave feedback for the other party once the the seller has received the payment and the winning bidder has received the item.
[Leave feedback to seller](#) - [Leave feedback to bidder](#) .

Details for the seller and high bidder(s):

The seller should contact the winning bidder(s) with information on the total cost, including shipping, and where to send payment. The winning bidder(s) must pay the seller directly for the item(s), and it is the seller's responsibility to fulfill the order when payment terms are met. The binding contract of the auction is between the winning bidder and the seller.

If the seller is unable to establish contact with the high bidder within 3 business days of the end of the auction, he/she may lose the place as winning bidder, and be at risk for receiving negative feedback and/or a [Non-Paying Bidder](#) warning, both of which can ultimately lead to suspension from eBay.

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