



## Elements of Precise Surveying and Geodesy

By Mansfield Merriman

BiblioLife. Paperback. Book Condition: New. This item is printed on demand. Paperback. 272 pages. Dimensions: 8.0in. x 5.0in. x 0.6in. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1899 Excerpt: . . . a formula that takes barometer and thermometer into account, is applied. Thus the true zenith distance  $z$  is found, and from this and the given latitude of the place and declination of the star the hour-angle  $t$  is computed from the above formula, and converted into time measure. The true sidereal time then results by adding the right ascension of the star, and this is converted into local mean solar time and then into Eastern standard time, from which finally the watch error is found to have been 37. 25 seconds slow. The probable error of this determination is less than one-quarter of a second. The most favorable position of a star for this work is when it is on the prime vertical. For, if  $dz$  be an error in  $z$ , the corresponding error  $dt$  in  $t$ , obtained by differentiating the first equation of this Article,...

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