

عنوان مقاله:

The effect of GPS1 antenna's phase center offset and satellite DOP2's on the exact positioning

محل انتشار:

سومین کنفرانس سراسری توسعه محوری مهندسی عمران ، معماری ، برق و مکانیک ایران (سال: 1395)

تعداد صفحات اصل مقاله: 11

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خلاصه مقاله:

In this study, the effect not being in the same orientation of the antennas error in a triangular network with approximate dimensions of 19,12 and 15 meters has been tested. Satellite observations of the three sides traverse were tested in four consecutive days and every 6 hour. Four times of traverse have been done during 0,6,12 and 18 hours of day. In all observations on the first and second day, the antennas direction has been to the West, in the third day observations, the direction of antennas to the outside of each Baseline and on the fourth day observations, antenna direction has been located inside the Baseline. Thus, a total of 16 times of the traverse, has been carried at a rate of 1 in the metropolitan area with excellent viewing angles and free of annoying GPS signals. The observations of each Baseline have been lasted for twenty minutes. In all processing times of Baseline absolutely identical name satellites and completely identical time interval have been used. Finally, the effect of antennas direction in positioning as well as DOP satellite impact on different days and other possible errors on satellite traverse have been evaluated.

کلمات کلیدی:

Antenna Phase Center, GPS, DOP, Baseline, Satellite travers

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