

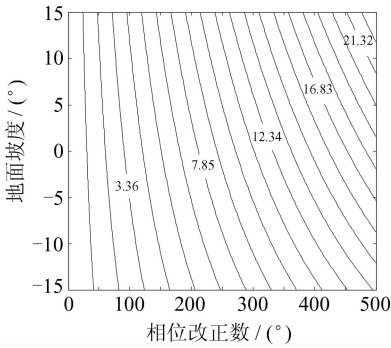


图 4 相位改正对测高精度的影响(等值线图)
Fig. 4 Influence of the Correcting Phases

多国家的重视,是一种发展趋势,目前有代表性并将付诸实现的系统有 CNES 和日本联合开展的 Cartwheel^[5]及德国空间局的 Tandem-X 任务^[6]。从本文的分析可知,在基于卫星编队的 InSAR 系统中,方位向基线引起的高程误差很大,在求解地面点高程时,需要进行去方位向基线影响处理,以提高高程测量的精度。

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Influence of Azimuth Base-Line on Formation-Flying Satellites Based InSAR

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Abstract: The cause of azimuth base-line is described based on the characteristic of formation-flying satellites based InSAR system. The correcting method of phases is proposed, and the phase is produced by azimuth base-line. On the basis of this method, the phase correction of InSAR system of formation-flying satellites in the normal instance and the influence to the accuracy of InSAR DEM are analyzed.

Key words: interferometric synthetic aperture radar; azimuth base-line; formation-flying; phases

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