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综计

重复轨道雷达干涉测量中的大气影响及其研究展望

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摘要:

在研究大气延迟物理机制的基础上,分析了大气效应对雷达干涉测量产生的影响,并对重复轨道雷达干涉测量中大气延迟的分析方式进行了归纳与探讨; 回顾了国内外关于InSAR大气影响的研究方法,着重对现有的大气误差改正方法进行了分类和比较,并对存在的问题进行了分析,对今后的研究方向提出了建议。

关键词: 雷达干涉测量(InSAR) 大气影响 大气折射延迟

THE ATMOSPHERIC EFFECT IN REPEATED TRACK INSAR MEASUREMENTS AND ITS RESEARCH PROGRESS

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Abstract:

Based on researches on the physical mechanism of atmospheric delay, this paper has studied the atmospheric effects in repeated track InSAR measurements and put forward four ways to analyze the effects based on SAR interferograms. The research progress, especially in the correction of atmospheric effects, is reviewed comprehensively. Different approaches to mitigating the atmospheric effects as well as their problems and limitations are discussed and compared with each other. At last, some suggestions are given for future studies.

Keywords: InSAR Atmospheric effect Atmospheric refraction delay

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