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# 青藏铁路沿线主要次生不良冻土现象的调查和机理分析

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**摘要** 经过野外调查发现, 完成施工但尚未投入运营的青藏铁路沿线出现了一些次生不良冻土现象。通过讨论这些次生不良冻土现象的分布规律和危害, 认为铁路路基对地下水条件和冻土热稳定性的破坏是导致产生次生不良冻土现象的根本原因, 并初步探讨了针对这些现象的工程防治措施。

**关键词** [土力学](#); [青藏铁路](#); [次生不良冻土现象](#); [机理](#); [调查](#)

分类号

## INVESTIGATION AND MECHANISM ANALYSIS OF THE MAJOR SECONDARY HARMFUL FROZEN-SOIL PHENOMENA ALONG QINGHAI—TIBET RAILWAY

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### Abstract

A number of secondary harmful frozen soil phenomena were found along Qinghai—Tibet railway which are being developed since the completion of construction of the railway. The distribution laws and danger of these phenomena are discussed. These are mainly caused by disturbance of ground water condition and thermal stability. Some key principles to control these disasters are also discussed.

### Key words

[soil mechanics](#); [Qinghai—Tibet railway](#); [secondary harmful frozen-soil phenomena](#); [mechanism](#); [investigation](#)

