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### 论文

## 强震条件下高速滑坡的空间分布特征研究

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摘要:

5.12汶川地震引发了大量的滑坡灾害,本文以汶川地震极重灾区涉及的四川12县市为研究区域。通过详细的现场调查研究,对强震条件下的典型高速滑坡的空间分布特征进行了综合分析。从区域上看,高速滑坡明显呈带状沿龙门山断裂带展布,并主要受北川—映秀断裂控制。此外,本文还对研究区域内典型高速滑坡的滑程、剪出口高程、滑坡前后缘高差等几何要素的空间分布规律做了分析研究。

关键词: 汶川地震,高速滑坡,空间特征,分布特征

### STUDY ON DISTRIBUTION AND SPATIAL CHARACTERISTICS OF HIGH SPEED LANDSLIDES UNDER STRONG EARTHQUAKES

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Abstract:

The 5·12 Wenchuan Earthquake induced a lot of landslides Study areas of this paper are several severest disaster counties including Wenchuan, Beichuan, Qingchuan, Anxian, Pingwu, Maoxian, Jiangyou, Pengzhou, Shifang, Mianzhu etc Under detailed field investigation, distribution

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汶川地震,高速滑坡,空间特征,分布特征

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and spatial characteristics of typical high speed landslides under the condition of strong earthquakes are analyzed comprehensively. High speed landslides were all located along the Longmen Shan fault zone, and especially controlled by the Beichuan-Yingxiu Fault which is one of the three sub-faults of Longmen Shan fault. There is also another distribution characteristic that high speed landslides were all along the water systems. Active structures have macroscopic control to landslides while water systems have local effect to them. Furthermore some spatial characteristics of high speed landslides such as slippage, the distances between the front and the back edge of landslides, height of the landslide shear crack are analyzed in this paper.

Keywords: Wenchuan earthquake High speed landslide Distribution characteristics Spatial characteristics

收稿日期 修回日期 网络版发布日期

DOI: