

[1]李志龙,毛德华,冯畅.澧南垸堤防工程综合风险分析[J].自然灾害学报,2013,03:265-274.

LI Zhilong, MAO Dehua, FENG Chang. Comprehensive risk analysis of Linan polder dike engineering[J]., 2013, 03: 265-274.

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澧南垸堤防工程综合风险分析(PDF)

《自然灾害学报》[ISSN:/CN:23-1324/X] 期数: 2013年03期 页码: 265-274 栏目: 出版日期: 2013-07-30

Title: Comprehensive risk analysis of Linan polder dike engineering

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关键词: 澧南垸; 堤防工程; 综合风险分析

Keywords: Linan polder; dike engineering; comprehensive risk analysis

分类号: TV877

DOI: -

文献标识码: -

摘要: 对澧南垸堤防工程状况的分析表明, 此项工程的现状不容乐观. 堤防工程风险分析对于防洪规划的制订、堤防工程建设和除险加固及防汛抢险有着重要的意义. 建立了包括漫顶风险、边坡失稳风险和渗透变形风险在内的综合风险分析模型. 选取了刘家河-港口河段为典型堤段, 应用所建堤防工程综合风险分析模型, 计算了其综合风险. 其结果表明: 漫顶风险率为5.41%, 渗透变形风险率为2.086%, 边坡失稳风险率为0.338%. 因此, 其综合风险率为7.834%.

Abstract: Analysis of Linan polder dike engineering shows that situation of the Linan dike project is not optimistic. Dike engineering risk analysis is of great significance for flood control planning enactment, dike construction and strengthening, and flood control and wrecking. Thus an analysis model of comprehensive risk, including overtopping risk, slope instability risk and seepage risk, was established, and was used calculate the comprehensive risk of a typical example of the Liujahe to Gangkouhe section of Linan polder. Results show that the overtopping risk rate is 5.41%, seepage risk rate is 2.086%, and slope instability risk rate is 0.338%. Therefore, the comprehensive risk rate of the section is 7.834%.

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备注/Memo: 收稿日期:2012-10-8;改回日期:2012-11-22。

基金项目:湖南省自然科学基金重点项目(12JJ2026);2012年度高等学校博士学科点专项科研基金联合资助项目(20124306110009);湖南省重点学科建设项目(2011-001);湖南省水利科技项目(湘财农指[2007]7号)

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