[1]徐蕾,崔立富,杜篷娟,等.含体积型缺陷加筋球壳拱顶的稳定性分析[J].自然灾害学报,2012,04:216-222.

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含体积型缺陷加筋球壳拱顶的稳定性分析(PD

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Title: Stability analysis of reinforced spherical shell cap with volume type defects

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摘要: 当大型储罐拱顶出现体积型缺陷时,最常见的破坏形式是拱顶外压失稳破坏。因此,针对含体积型缺陷的加筋拱顶,对其缺陷发生的最不利位置及拱顶稳定性进行了大量的有限元计算,提出了含缺陷加筋拱顶临界失稳载荷的实用计算公式,以供建立含缺陷加筋拱顶的安全评定方法参考。

Abstract: The instability failure under external pressure is the most common failure mode of large-scale storage tank’s arch top with volume type defects. So a great deal of stability analysis was carried out for the arch top with volume type defects in the paper, and the most unfavorable positions of defects were determined. On the basis of these, a practical formula of stability critical load for the