

## 域外奇点法解杆的弹塑性扭转问题

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**摘要** 本文提出一种借助于沙丘比拟的求解杆弹塑性扭转问题的域外奇点法, 这种方法可降低所求问题的维数, 有效地避免解的奇异性。它具有方法简单, 不需要数值积分, 计算时间短和精度高等优点。

**关键词** [域外奇点法](#) [弹塑性扭转](#) [沙丘比拟](#) [格林函数](#)

分类号

## OUTSIDE SINGULAR POINT METHOD FOR THE ELASTOPLASTIC TORSION PROBLEMS

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### Abstract

In this paper, the outside singular point method with the aid of sand-heap analogy for solving elastoplastic torsion problems is proposed. This method can reduce the dimensions of the problem and effectively avoid the singularity of the solution and needs no numerical integration. It has the advantages in simplicity, efficiency and accuracy. In this paper, the outside singular point method with the aid of sand-heap analogy for solving elastoplastic torsion problems is proposed. This method can reduce the dim...

**Key words** [Outside singular point method](#) [Elastoplastic torsion](#) [Sand-heap analogy](#) [Green's function](#)  
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