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## 基于参数变分原理的非均质材料弹塑性有限元分析的Voronoi单元法

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**摘要:** 在非均质材料的有限元数值模拟中, 采用了Voronoi单元(VCFEM)以克服经典位移元的局限性. 基于参数变分原理和二次规划法进行了Voronoi单元的二维弹塑性分析. 推导了有限元列式并形成最终的二次规划求解模型. 研究了非均质材料微观夹杂对整体力学性能的影响. 数值算例证明了该方法的正确和可行性.

**关键词:** Voronoi单元; 参数变分原理; 二次规划法

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