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不同功能梯度压电层状介质中共线界面裂纹的动态性能分析

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摘要: 对不同功能梯度压电层状介质中, 共线界面裂纹对简谐应力波作用下的动态问题, 进行了分析. 经Fourier变换, 使问题的求解转换为求解以裂纹面上位移间断为未知量的三重对偶积分方程, 三重对偶方程可以采用Schmidt方法来求解, 进而分析了功能梯度参数、入射波频率和层状介质厚度对应力、电位移和磁通量强度因子的影响.

关键词: 功能梯度压电材料; 界面裂纹; 应力波

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