Further, the FG behavior changes from alumina to almost aluminum plate by iIncreasing

Mformzero, the FG behavior change from alumina to almost aluminum plate.Furthermore,

the ThebBlue line (*M=1*) represents showa linear distribution of ceramic particle and

accordingly consequentially a linear change in both elastic modulus and density.

wWhereich is PDE represents with variable coefficients. An approximate

solutioncalled"Homogenous Layers Approximation (HLA)" was employed to deal with wave

propagation in FG plate thickness Since it isdue to the difficulty t tobein solving ed with

analytical methods in the present studyis research, an approximate solution called

theHomogenous Layers Approximation (HLA) is employed to deal with wave propagation in

FG plate thickness.

The wave amplitude increases in both the z-direction and in CTM detection while the wave

amplitude decreasesby nNeglecting wave divergence and assuming constant energy for

traveling wave, in the a case of MTC detection due to an increase ingin elastic modulus and a

decrease in the ing strain, the wave amplitude increase in the z-direction and simultaneously

in CTM detection the wave amplitude is decreasing.