

VIBRATION AMPLITUDE AS A FUNCTION OF FILLING RATIO AND DIMENSIONS OF BALL MILLS COMPARISON BETWEEN THE MECHANIC MECHANICAL APPROACH

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ABSTRACT

This paper wants to demonstrate how is possible, by tree model approach for the movement of grinding in vibrating ball mills to design of the vibrating ball mills . With three model mechanic approach can be determined vibration amplitude A as a function of filling ratio η , for different dimension of grinding chamber D and L , and the filling ratio of grinding elements . These models are: ***Mechanic Model nr.1 , of “ dividing mass in tow cylinder ”*** Prichici (2007) : ***Mechanic Model nr.2 , of “ dividing mass in tow half cylinder ”*** Prichici (2005): ***Mechanic Model nr.3 , of “divided mass in n barr”*** Prichici (2005)

After applied these tree model approach for the movement we obtain the conclusions about the influence of filling ratio and dimensions of ball mill of vibration amplitude.

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