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$$\begin{cases} \forall m\ddot{x} + \forall x (x - y) + \forall^{2}u \ \dot{x} = 0 \\ M\ddot{y} + c^{2}y + \forall (y - x) + \forall^{2}u \ \dot{y} = F\cos\{t \} \end{cases}$$
(1)



 $C_{i(i=1\div 4)}$



: Lamarque C.H., Janin O. Modal analysis of mechanical systems with impact non-linearities: limitations to a modal superposition. Journal of Sound and Vibration (2000).

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