

1135-78-1838

Jaemin Shin* (jaemin.shin@hanbat.ac.kr). *Dipole approximation for shape magnetic forming.*

Shape magnetic forming is an inverse problem to seek a configuration of magnetic field generators which shapes molten metals to prescribed shapes. This talk introduces a new algorithm for shape magnetic forming based on dipole approximation. Convergence results are presented along with numerical simulations. (Received September 25, 2017)