The definitions of the notations employed in the given system of equations are provided below: \$\$

begin{aligned} mathbf{e}&: text{Attribution array of edges}\

mathbf{n}&: text{Attribution array of nodes}\

mathbf{m}&: text{Message array}\
mathbf{L}&: text{Layer index}\

i,j &: text{Node indices}\

mathbf{N}&: text{Neighborhood operator}\
mathcal{N}&: text{Edges updating function}\
mathcal{U}&: text{Nodes updating function}\

mathcal{M}&: text{Message generating function}\ end{aligned} \$\$ Bsically, at each level \$L\$ the

GNN/MPNN model iteratively