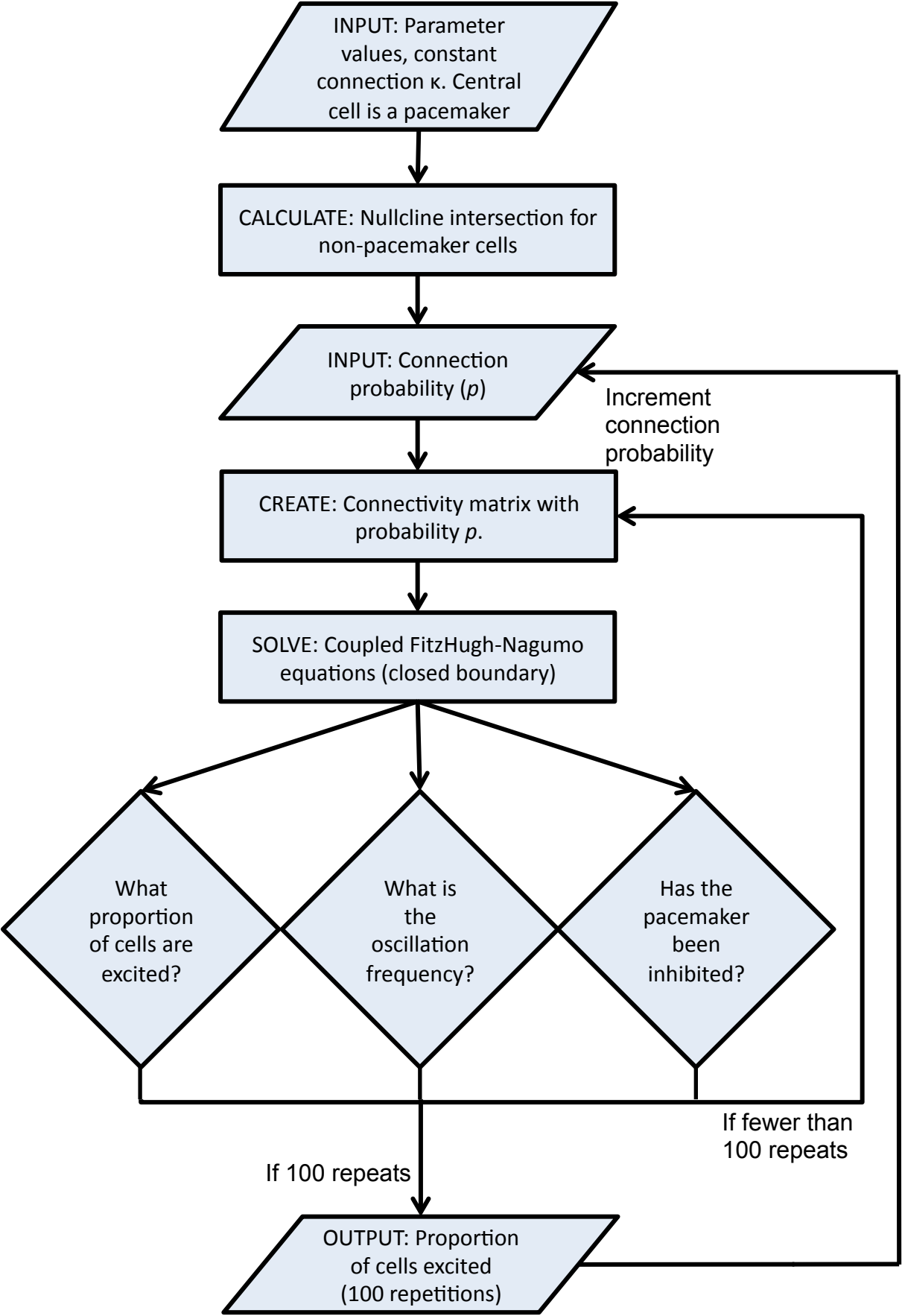
INPUT: Parameter values, constant connection κ. Central cell is a pacemaker
CALCULATE: Nullcline intersection for non-pacemaker cells
INPUT: Connection probability (p)
Increment connection probability
CREATE: Connectivity matrix with probability p.
SOLVE: Coupled FitzHugh-Nagumo equations (closed boundary)
What proportion of cells are excited?
What is the oscillation frequency?
Has the pacemaker been inhibited?
If fewer than 100 repeats
If 100 repeats
OUTPUT: Proportion of cells excited (100 repetitions)