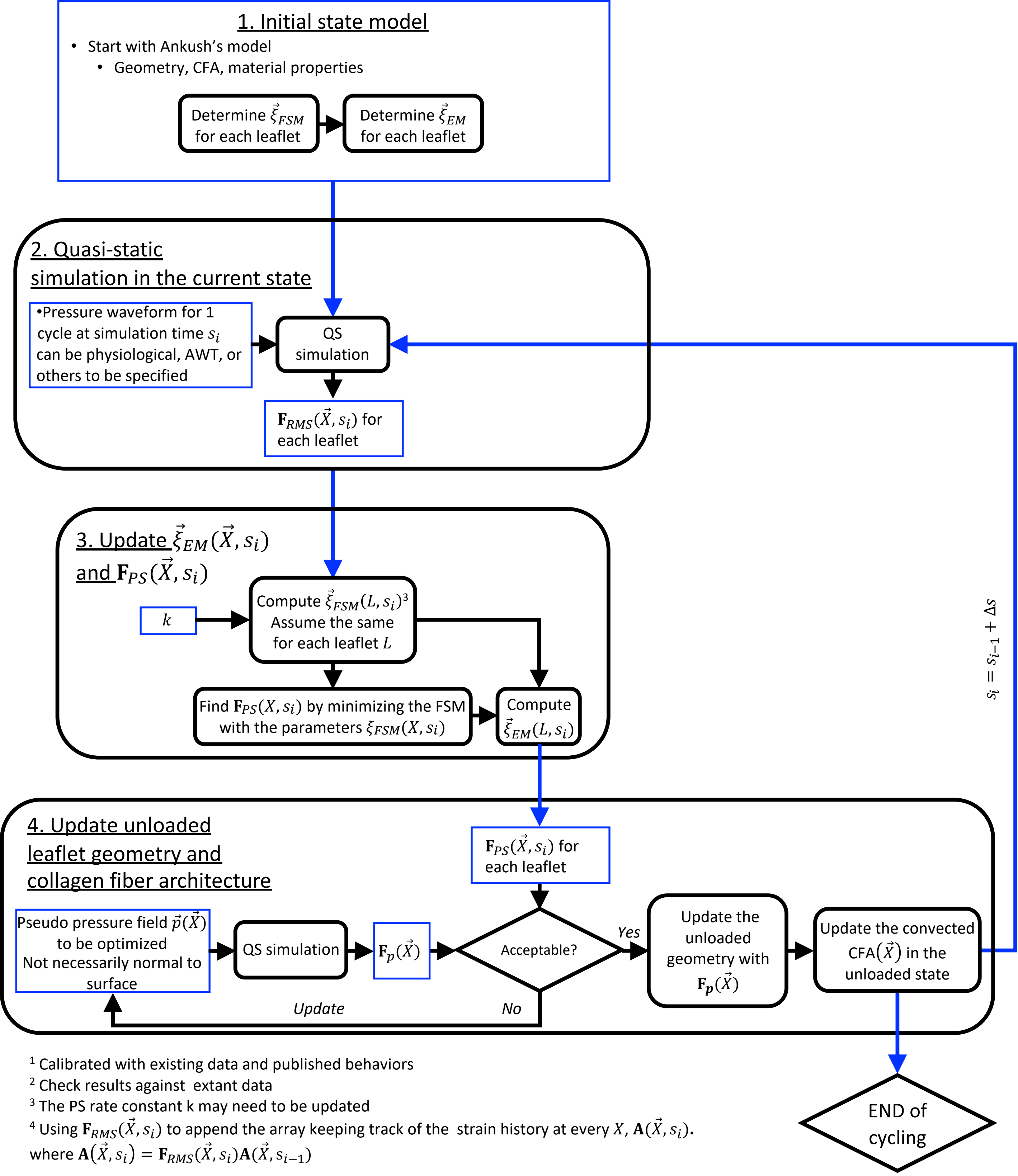


[1] Calibrated with existing data and published behaviors
[2] Check results against extant data
[3] The PS rate constant k may need to be updated
[4] Using $\mathbf{F}_{RMS}(\vec{X}, s_i)$ to append the array keeping track of the strain history at every X, $\mathbf{A}(\vec{X}, s_i)$.
where $\mathbf{A}(\vec{X}, s_i) = \mathbf{F}_{RMS}(\vec{X}, s_i)\mathbf{A}(\vec{X}, s_{i-1})$

Legend

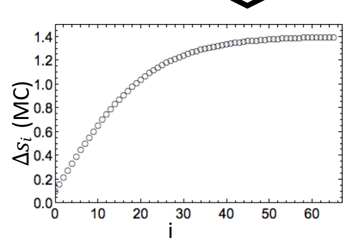
Properties/inputs

Tasks/operations

i = iteration
s = simulation time

p = pressure
$\mathbf{A}(s)$ = strain history
MC = million cycles
PS = permanent set
EM = effective model
FSM = full structural model

CFA = collagen fiber architecture
TAVR = Transcatheter aortic valve replacement



Time step size per iteration