Q: Blood flow

C\textsubscript{a,j}: Species j arterial concentration

C\textsubscript{v,j}: Species j venous concentration

C\textsubscript{b,j}: Species j capillary blood concentration

\( J_{b\rightarrow c,j} \): Species j transport rate from blood to tissue cells

\( R_{c,j} \): Species j reaction rate in tissue cells (\( P_{c,j} - U_{c,j} \))