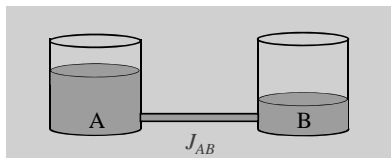


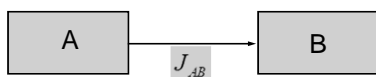
Compartment Models cont'd



$$J_{AB} = k(A - B)$$

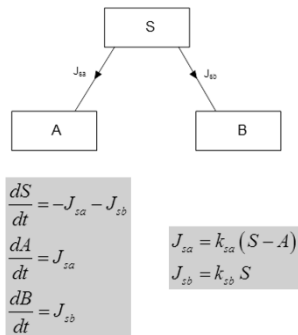
Berkeley-Madonna tutorial...

General transfer equations



$J_{AB} = k$	constant flow
$J_{AB} = k_{AB}A$	donor dependent
$J_{AB} = k_{AB}B$	recipient dependent
$J_{AB} = k_{AB}(A - B)$	donor-recipient difference
$J_{AB} = k_{AB}AB$	donor-recipient product
$J_{AB} = k_{AB}A - l_{AB}A^2$	like logistic function
$J_{AB} = k_{AB}f(t)$	forcing function (time)

Model for Lab exercise 4



Berkeley-Madonna Program

- 1) Draw compartments
- 2) Add flows between compartments
- 3) Define any parameters (like k)
- 4) Define flows (transfer equations)
- 5) Set initial conditions
- 6) Set run options
- 7) Check compartment DEs
- 8) Run model (solve)
- 9) Examine results (draw graphs)
