each system has;
  Characteristic relaxation
  time, or equlibrium time
which can be fast even though
overall equlibrium time is
slow; if con divide big
system into small systems
and small systems are in
reasonable. eq.

$$\frac{\partial T(r,t)}{\partial t} \approx \nabla^2 T(r,t) \quad \text{eq of}$$

eq. of heat conduction
  fluid eq.
  $\rho(r,t)$ Boltzmann eq.