

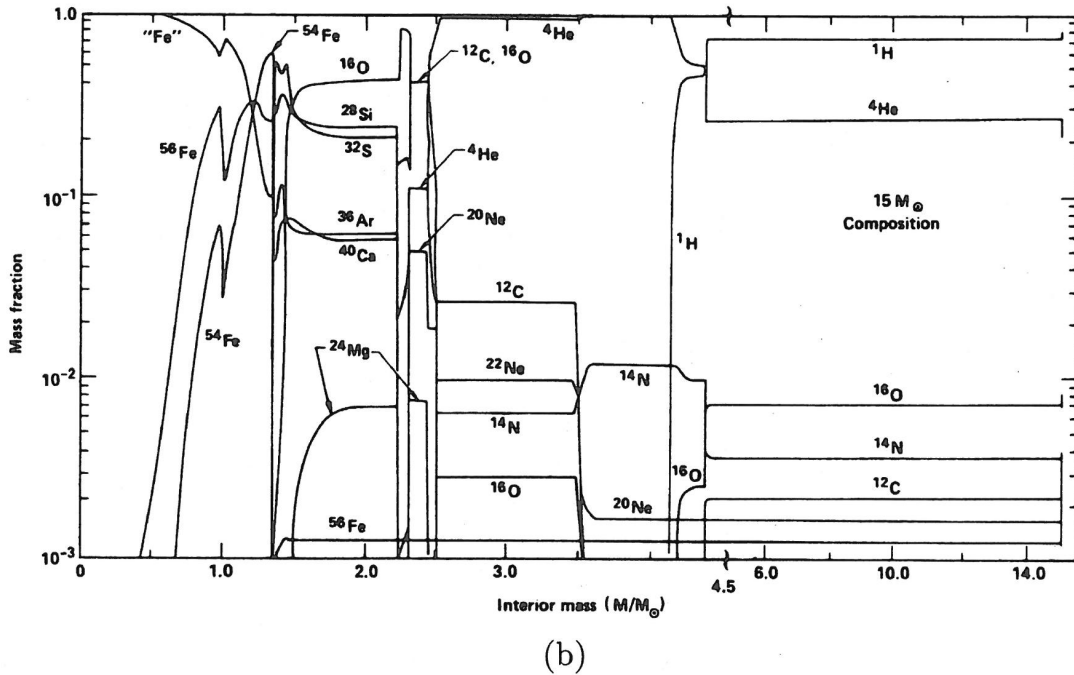
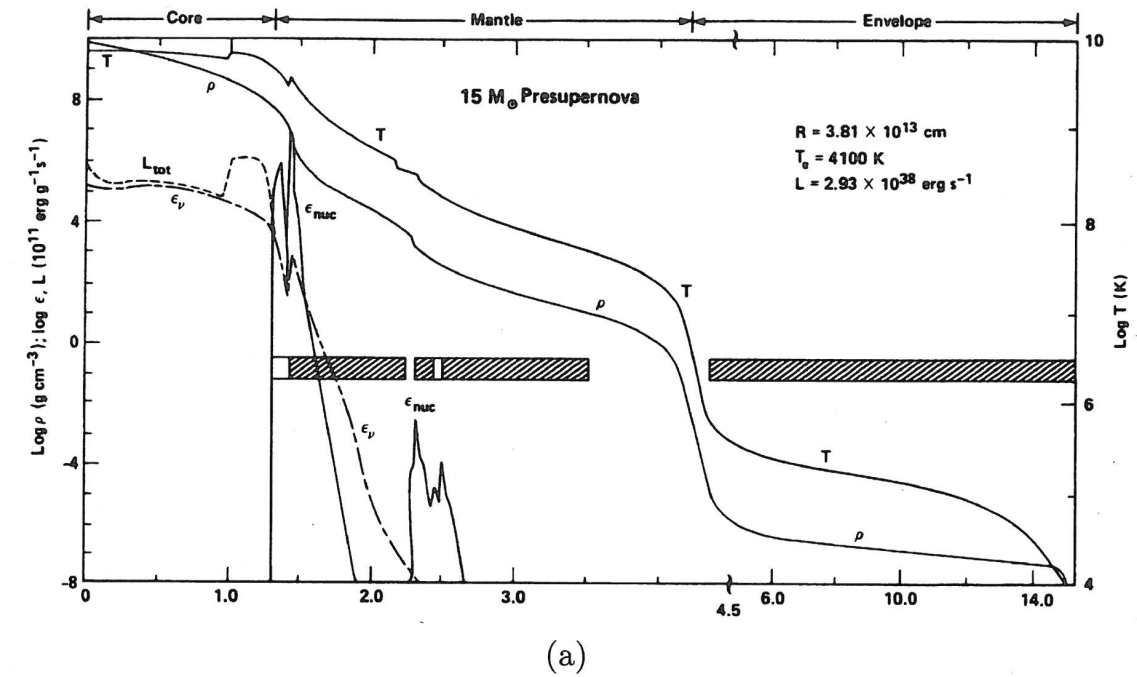


Figure 13.15 The interior structure of an evolved $15 M_{\odot}$ star just before the collapse of the iron core. (a) Temperature (T), density (ρ), the energy from nuclear reactions and losses from neutrinos (ϵ_{nuc} and ϵ_{ν} , respectively), and the total luminosity (L_{tot}) are shown. Convection zones are indicated by hatched bars. (b) The composition structure reveals extensive nuclear processing. (Figures from Woosley and Weaver, *Annu. Rev. Astron. Astrophys.*, 24, 205, 1986. Reproduced with permission from the *Annual Review of Astronomy and Astrophysics*, Volume 24, ©1986 by Annual Reviews Inc.)