## FYS 4630. Oppgaver til 18.10.2006

Problem 7.1 page 270 but with the following modifications:
c) Assume $F^{s}=1$ and no absorption. Plot the intensity for $\tau^{*}=0.05$ only.
d) Assume isotropic scattering for the reflected radiation.
e) Plot the ratio $I^{-}\left(\tau^{*}, \mu, \varphi, \pi \rho_{L}\right) / I^{-}\left(\tau^{*}, \mu, \varphi, 0\right)$ in the principal plane of the Sun for various $\mu$-values. Plot first for $\pi \rho_{L}=0.05$ (bare ground in the UV and the visible) and then for $\pi \rho_{L}=0.7$ (represents snow cover).
Use the intensity expressions in d).

## Problem 7.2.

Solve only by using (2), i.e. the two-stream equations.

