**Absorption and Stripping** (pp. 317-325, Seader and Henley)

Absorption: gas is purified; solute is absorbed from gas into liquid stream
Stripping: liquid is purified; solute stripped from liquid into gas
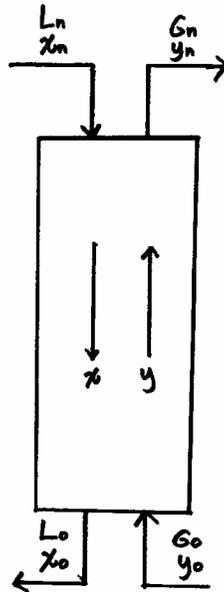
For dilute streams, assume constant gas and liquid flow rates:
$$G_0 = G_n = G$$
$$L_0 = L_n = L$$

Absorption	**Stripping**
y_n is usually specified	x_0 is usually specified
mass balance around *top* of column	mass balance around *bottom* of column
operating line:	operating line:
$y = x\left(\dfrac{L}{G}\right) + y_n - x_n\left(\dfrac{L}{G}\right)$	$y = x\left(\dfrac{L}{G}\right) + y_0 - x_0\left(\dfrac{L}{G}\right)$
gas film controls mass transfer	liquid film controls mass transfer
driving force = $(y-y^*)$	driving force = (x^*-x)

Absorption: operating line above PEQ line
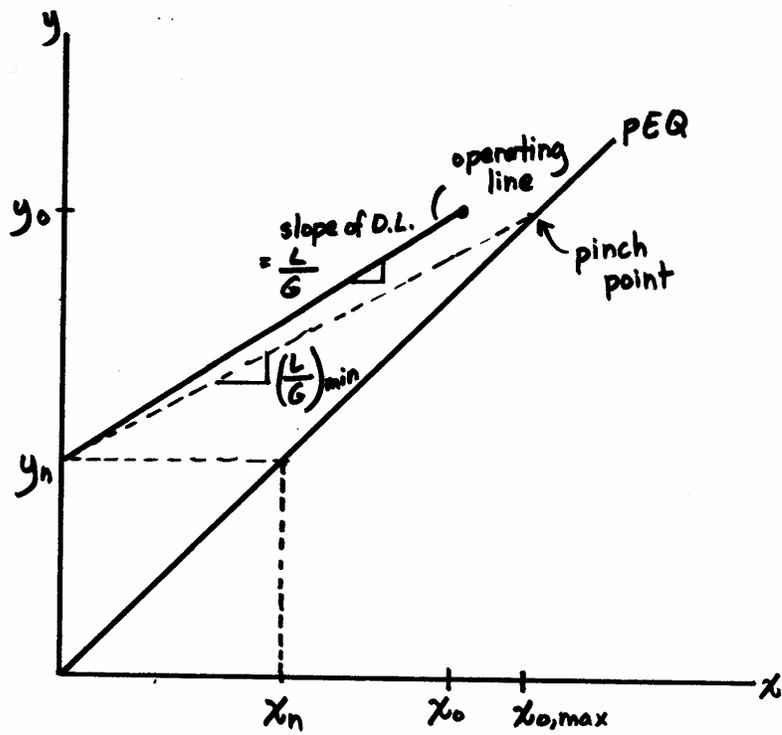
Stripping: operating line below PEQ line