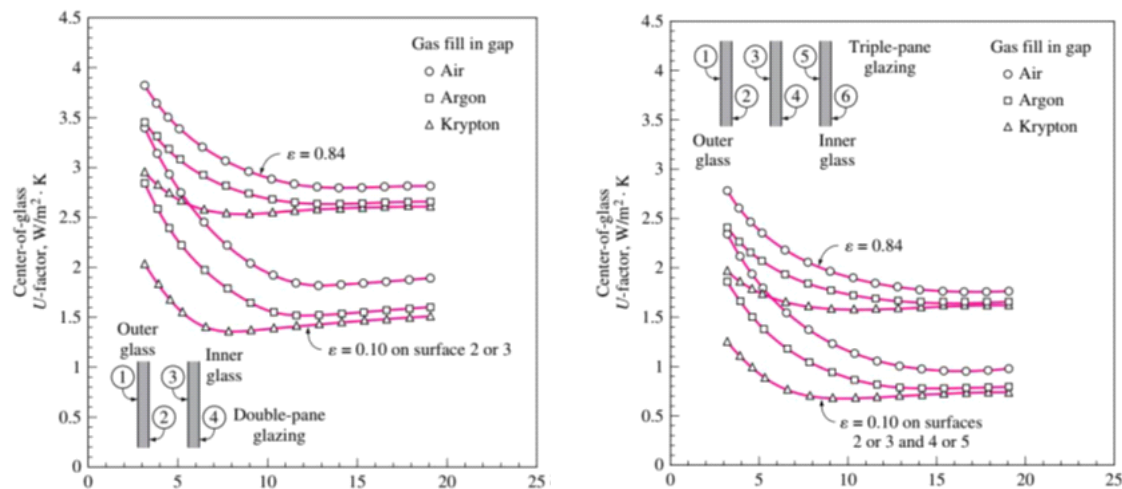


## Week8-kolahdooz.tina

Tuesday, November 26, 2019

### TASK 1

Using the diagrams given in the presentation calculate how much (%) is the effect of applying different modifications (changing the gas, adding an extra pane, using a low emissivity coating) on the U value with respect to a benchmark case of double layer with air and no coating? (Keep the gap thickness to be 13 mm)



Panel with the air gap	u-value	effect
Dp air between N-coatig	2.80	0%
Dp argon N-coatig	2.65	5%
Dp krypton N- coatig	2.60	%7
Dp air coatig IP	1.80	36%
Dp argon coatig IP	1.55	45%
DP krypton coatig IP	1.40	50%
Tp air N-coatig	1.80	36%
Tp argon coatig IP	1.65	41%
Tp krypton coatig IP	1.53	45%
Tp air coatig IP	1.00	61%
Tp argon coatig IP	0.8	74%
Tp air coatig IP	1.00	61%
Tp argon coatig IP	0.8	71%
Tp krypton coatig IP	0.7	75%