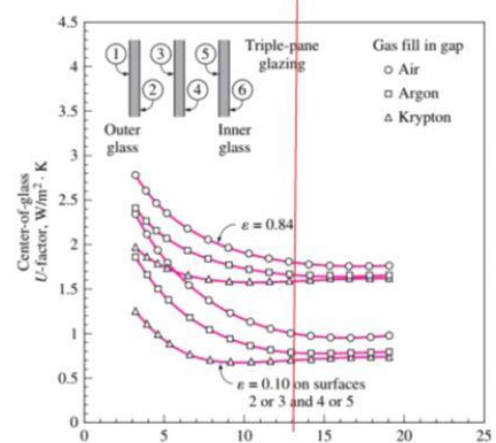
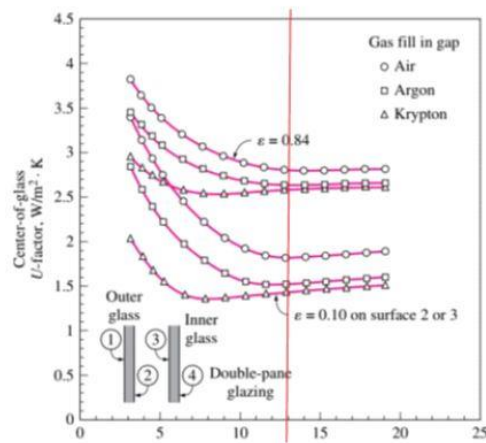


Task 1

Alan Minouei



Panel with air gap 13mm			U-Value	Effect %
D-Pg	air between	N-coating	2.80	0%
D-P	argon	N-coating	2.65	5%
D-P	krypton	N-coating	2.60	7%
D-P	air	coating IP	1.80	36%
D-P	argon	coating IP	1.55	45%
D-P	krypton	coating IP	1.40	50%
T-P	air	no-coating	1.80	36%
T-P	argon	no-coating	1.65	41%
T-P	krypton	no-coating	1.53	45%
T-P	air	coating IP	1.00	64%
T-P	argon	coating IP	0.8	71%
T-P	air	coating IP	1.00	64%
T-P	argon	coating IP	0.8	71%
T-P	krypton	coating IP	0.70	75%

Task 2

Consider the house that we analyzed in the last two examples, calculate the heating and cooling load of the other windows which are fixed 14.4 m² on the west, fixed 3.6 m² on the south and an operable 3.6 m² on the south (the same window and frame type). How much does the total value change if I change the frame of the window from wooden one to aluminum?