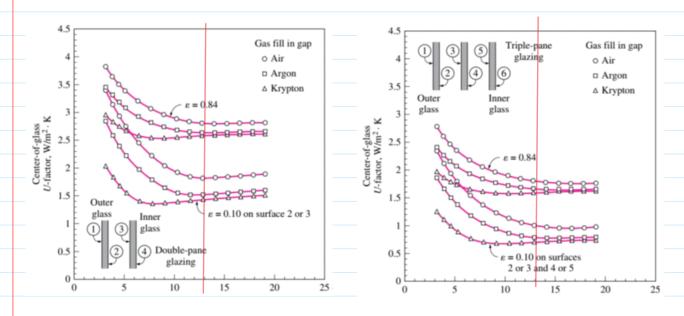
Tuesday, November 26, 2019 9:55 PM

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)



ponel wi	th air gap 13	ΜŊ	()-Value	ffect %
D-Pa	air between	N- coating	2,80	00%
D-10	avgon	N_000f19	2,65	5 %
D-P	rabton	N_ Coatig	2 160	ブ ′′
D-P	air	Coating 17	1,80	36%
	bredow.	(/	1,55	45%
7	Krypton	Ŋ	1,40	<i>50</i> %
TP	air	NO_Contig	1,80	36 %
TP	avgan	1/	1,65	41%
TP	Krypton	U	1,53	457
70	@ir	Coatig IP	1,00	647.
TP	avgan	C	0,8	71%
TP	Krypte	on o	0,70	757.

l J/	en 301	17	o / O	/ / a
TP	Krypton	C	9,70	757.

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 mu	ıch
does the total value change if I change the frame of the window from wooden one to aluminum?	