

Chapter8_example4

The volumetric thermal expansion coefficient is 0.00341 /K

The Laminar-turbulent transition length by Vliet equation is 0.056 m

x,m	Ra	hc,W/(sq.m.K)
0.02	$2.03\text{e}+04$	9.32
0.04	$1.62\text{e}+05$	7.52
0.05	$3.16\text{e}+05$	7.04
0.05	$3.36\text{e}+05$	7.00
0.10	$3.58\text{e}+06$	6.39
1.00	$3.58\text{e}+09$	4.99
3.00	$9.67\text{e}+10$	4.73
5.00	$4.48\text{e}+11$	4.66