

Determine the adjusted elevations h_A and h_B of points A and B, respectively, by the least square's parametric adjustment of the field levelling notes in Table 6.1, which relates to the levelling network in Figure 6.1. Assume the elevations of points FH1 and FH2 are known and fixed as $h_1 = 100.000\text{m}$ and $h_2 = 99.729\text{m}$, respectively.

Use initialisation values of H_a as 92.659m and H_b as 95.154m

Table 6.1 Differential leveling field notes.

Leg i	BS	FS	Elevation difference dh_i (m)	Standard deviation (m)
1	FH1	BMA	-7.341	0.008
2	BMA	BMB	2.495	0.005
3	BMB	FH2	5.107	0.004

