

Practice exercise for the calculation of the detail point leveling

Field book with the measurements:

Point ID	Distance	Backsight	Intersight	Foresight	Rise/Fall	Correction	HoC [m]	Reduced Level [m]
620	12	1394						105.365
CP1	12			1422				
CP1	10	1210						
CP2	10			1471				
CP2	21	1457						
CP3	21			1042				
CP3	20	1039						
202	-		1338					
203	-		1435					
204	-		1536					
CP4	20			1511				
CP4	18	1477						
CP5	18			1103				
CP5	15	1224						
205	-		1022					
750	15			1307				105.302

Completed field book:

Point ID	Distance	Backsight	Intersight	Foresight	Rise/Fall	Correction	HoC [m]	Reduced Level [m]
620	12	1394						105.365
CP1	12			1422	-0028	-1		105.336
CP1	10	1210						
CP2	10			1471	-0261	-1		105.074
CP2	21	1457						
CP3	21			1042	0415	-2		105.487
CP3	20	1039					106.526	
202	-		1338					<b>105.188</b>
203	-		1435					<b>105.091</b>
204	-		1536					<b>104.990</b>
CP4	20			1511	-0472	-2		105.013
CP4	18	1477						
CP5	18			1103	0374	-1		105.386
CP5	15	1224					106.610	
205	-		1022					<b>105.588</b>
750	15			1307	-0083	-1		105.302
$\Sigma$	192	7801		7856	-0055	-8		$\Sigma\Delta h^{\text{true}} = -0063$