



Experiment No. 3

October 30, 2021, 8:22 pm

Singly Constrained Gravity Model(Destination)

Input Values :

Base Year Origin-Destination Cost Matrix			
Zone	1	2	3
1	3	10	15
2	10	5	10
3	15	10	5

Future Year Origins Total			
Zone	1	2	3
	10	15	8

Future Year Destinations Total			
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Zone	1	2	3
	7	16	10

Selected Impedance Functions : Exponential Function [$F_{ij} = e^{-(B)C_{ij}}$]

B value = 3

Calculations :

Impedance Matrix Calculations (Fij)			
Zone	1	2	3
1	0.0001	0	0
2	0	0	0
3	0	0	0



Oij*Fij			
Zone	1	2	3
1	0.0012	0	0
2	0	0	0
3	0	0	0
Sum Oij*Fij	0.0012	0	0

Interaction Probabilities (Pij)			
Zone	1	2	3
1	1	0	0
2	0	1	0
3	0	0	1

Final Result

Origin Destination Matrix Tij



Zone	1	2	3
1	7	0	0
2	0	16	0
3	0	0	10
Sum $O_i * F_{ij}$	7	16	10
Future year Destinations Total	7	16	10