1. Current Traffic condition
2. Calculate link Marginal cost:

$$(9{,}252{,}186{,}839 * d * \sqrt{-n * (3021 * x - 8{,}000{,}000{,}000 * n)}) + 827{,}540{,}000{,}000{,}000 * d * n)/(6{,}250{,}000{,}000 * x)$$

(Note: d = link length

n = number of lanes

x = link volume)

3. Calculate Link surcharge

(1/ n) * linkMarginalCost + (1-(1/n)) * linkToll_last)

4. Traffic Assignment

Traverse all OD pair until all demand being assigned

For each OD pair {

Load 1% of original demand;

Update link travel time cost by:

$$\frac{2000\left(\sqrt{5}\sqrt{-d^2 n(3021x - 8{,}000{,}000{,}000n)} - 200{,}00dn\right)}{3021x}$$

}

}

5. Check the convergence criterial

$$\sum_a |S_a^n - S_a^{n-1}| < \varepsilon$$

If not meet back to step 2.