

Location formulas, KPP227

Location

Load distance

$$ld = \sum_i l_i d_i$$

Euclidian distance

$$d_{AB} = \sqrt{(X_A - X_B)^2 + (Y_A - Y_B)^2}$$

Rectilinear distance

$$d_{AB} = |X_A - X_B| + |Y_A - Y_B|$$

Center of gravity

$$X^* = \frac{\sum l_i X_i}{\sum l_i}$$

$$Y^* = \frac{\sum l_i Y_i}{\sum l_i}$$