

Lampiran 5. Contoh Perhitungan Pemodelan Dispersi *Gaussian Line Source*

Berikut adalah contoh perhitungan pada Tabel 4.5 baris pertama:

- Konsentrasi CO $\rightarrow C(x, y, z) = \frac{2q}{(2\pi)^{0,5}u \sigma z} \exp\left[-\frac{1}{2}\left(\frac{H}{\sigma z}\right)^2\right]$
- $q_{CO} = 34,395 \text{ gr/km.detik}$
 $= 0,0344 \text{ gr/m.detik}$
- $u = 1,275 \text{ m/detik}$
- $\sigma z = 1999,39 \text{ meter}$
- $H = 0,3 \text{ meter}$
- $C = \frac{2q}{(2\pi)^{0,5}u \sigma z} \exp\left[-\frac{1}{2}\left(\frac{H}{\sigma z}\right)^2\right]$
 $= \frac{2 \times 0,0344 \frac{\text{gr}}{\text{m} \cdot \text{detik}}}{(2 \times 3,14)^{0,5} \times 1,275 \frac{\text{m}}{\text{detik}} \times 1999,39 \text{ m}} \exp\left[-\frac{1}{2}\left(\frac{0,3 \text{ m}}{1999,39 \text{ m}}\right)^2\right]$
 $= 0,010768 \text{ g/m}^3$
 $= 10768,17 \mu\text{g/m}^3$

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