

**【結構設計（鋼筋混凝土學與設計）②】答案勘誤表**

P1

原本為：(二)  $x = 0.85 * 16.18 = 19.04 \text{ cm} < x_{0.005} = 20.625 \text{ cm}$  ,  $\phi = 0.9$

$$\begin{aligned}
 M_n &= 0.85f'_c a \left( d - \frac{a}{2} \right) - 0.85f'_c [10 * 20(55 - 5)] \\
 &= 238 * 16.18 \left( 55 - \frac{16.18}{2} \right) - 238 * 200 * 50 = 4847194.37 \text{ kgf} \cdot \text{cm} \\
 &= 48.47 \text{ tf} \cdot \text{m} \\
 \phi M_n &= 0.9 * 48.47 = 43.62 \text{ tf} \cdot \text{m} \dots\dots\dots \text{Ans.}
 \end{aligned}$$

修正為：(二)  $x = \frac{16.18}{0.85} = 19.04 \text{ cm} < x_{0.005} = 20.625 \text{ cm}$  ,  $\phi = 0.9$

$$\begin{aligned}
 M_n &= 0.85f'_c a * 40 \left( d - \frac{a}{2} \right) - 0.85f'_c [10 * 20(55 - 5)] \\
 &= 238 * 16.18 * 40 \left( 55 - \frac{16.18}{2} \right) - 238 * 200 * 50 = 484576.18 \text{ kgf} \cdot \text{cm} \\
 &= 48.46 \text{ tf} \cdot \text{m} \\
 \phi M_n &= 0.9 * 48.46 = 43.61 \text{ tf} \cdot \text{m} \dots\dots\dots \text{Ans.}
 \end{aligned}$$