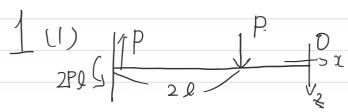
構造力学

2021年6月7日 月曜日 午後2:42



せいかりの、曲げとーメント川はは一引至又至一して 你是位置性意 S UU= P

Mow, p (-x-1)

$$\frac{d^2y}{dx^2} = \frac{M}{EI} x$$

$$\frac{dy}{dx} = \int \frac{M}{EL} dx = \frac{P}{EL} \left(-\frac{x^2}{2} - lx\right) + C,$$

$$\dot{y} = \frac{P}{EI} \left(-\frac{x^3}{6} - \frac{Q}{2}x^2 \right) + Cz + C_2$$

$$\frac{227}{y} = 0 \quad \frac{dy}{dx} = 0 \quad \text{The sum of } C_{1} = \frac{30^{2}}{2EI} \quad C_{2} = \frac{900^{2}}{2EI}$$

$$y = \frac{P}{E1} \left(-\frac{x^3}{6} - \frac{1}{2}x^2 \right) + \frac{3P0^2}{2E1}x + \frac{9P0^3}{2E1}$$

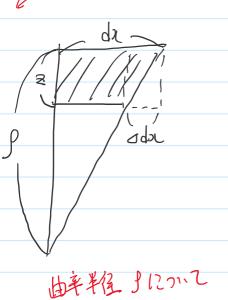
$$y = \frac{8Pl^3}{3EL} = \frac{32Pl^3}{Ebh^3}$$

(1) 動方向 nt" H Exx 127 12 2

も満れす。ここで

$$Z = \frac{h}{2}$$
, $P = \frac{EI}{M(-2l)} = \frac{EI}{Pl}$

CVZ. DAL



NΛ

表九、適角方向のひずみ とまにファマー とまた こうにて
$$V = -\frac{e_{1}}{e_{2}}$$
 より E_{3} とまた E_{5} と

$$(2) \quad \mathcal{E}_{2x} = \frac{6Pl}{Ebh^2} = \frac{3hS}{28l^2}$$

(3) を220 一点 見での曲げモーメットがゼロ

国主流で中心とあるモーメントのつりない

$$M(2) = \frac{P}{2}(-x-21)$$

$$\frac{d^{3}}{dx^{2}} \int \frac{M}{EI} dx = \frac{P}{2EI} \left(-\frac{\chi^{2}}{2} - 2lx \right) + C,$$

$$y = \int \frac{d^{3}}{dx} dx = \frac{P}{2EI} \left(-\frac{\chi^{3}}{6} - lx^{2} \right) + C_{1}x + C_{2}$$

$$\frac{d^{3}}{dx} = \frac{3Pl^{2}}{4EI} + C_{1} = 0 \quad \text{for } C_{1} = -\frac{3Pl^{2}}{4EI}$$

$$y = C_{2} = 0 \quad \text{for } C_{2} = 0$$

$$\frac{d9}{dx} = \int \frac{IM}{dx} dx = \frac{P}{12EI} x^{2} + C_{1}$$

$$4 = \int \frac{d9}{dx} dx = \frac{P}{12EI} x^{3} + C_{1}x + C_{2}$$

$$\frac{d9}{dx} \int_{x=-1}^{x=1} \frac{P^{2}}{4EI} dx = \frac{P}{12EI} x^{3} + C_{1}x + C_{2}$$

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①全体を通して、仮想仕事の原理or Castiglianoの定理を用いてらか。楽。