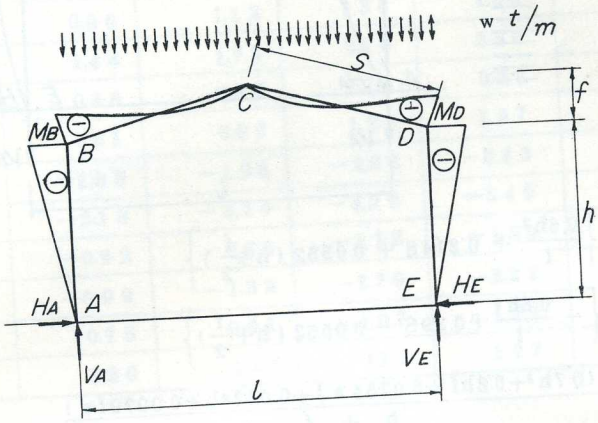
2 主架構の設計

2.1 基本式一覧

2.1.1 鉛直荷重時



$W = w \cdot l$

$V_A = V_E = \dfrac{W}{2}$

$H_A = -H_E = \dfrac{W \cdot l}{8(h+f)}$

$M_B = M_D = -H_A \cdot h$

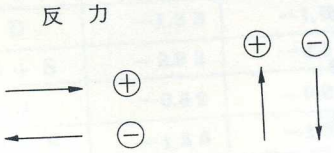
$N_{BC} = N_{DC} = -\sin\theta \cdot V_A - \cos\theta \cdot H_A$

$Q_{BC} = -Q_{DC} = \cos\theta \cdot V_A - \sin\theta \cdot H_A$

$Q_{BA} = -Q_{DE} = -H_A$

符号約束

反力

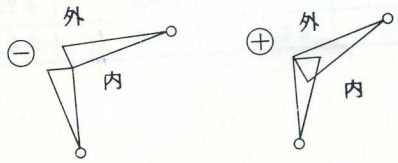


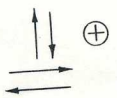
軸力

圧縮 ⊖

引張 ⊕

曲げモーメント



せん断力

時計回りの方向を正とする