

JYScãÑÑs ys-vÑÓ yÓ ÓÑ# SéÑ# Ó ú Ó Ó ú

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### EpL (B wEpTÆZ

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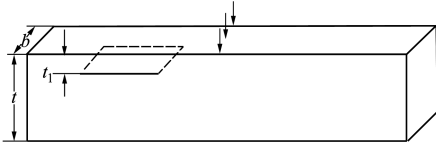
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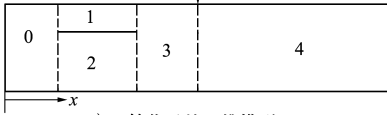
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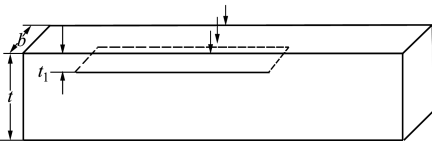


a) 三维模型

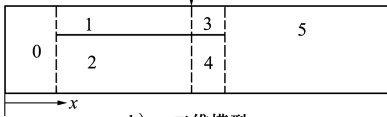


b) 简化后的二维模型

+ βæ=i3æW- DÐª8ªæ



a) 三维模型



b) 二维模型

+ 0æ=i3æ- DÐª8ªæ

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$$E k R \left( \zeta f \sim \right) \quad \%0$$

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 =•g g

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æ/8 %o' 3 ; Ä

$$\sim kf \frac{x^0}{x\mu} j \div_{\beta} \quad \%0$$

3 %o< ' æ/8 %oZ/ 3 - N Ä

$$kf \frac{x}{\beta\mu} j \left( \div_{\beta} j \frac{x}{OR} \right) j \div_0 \quad \%0$$

4C\$ g x±F 3 ±± ~<sup>1</sup> EÐô%9±±n/8 Ä  
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...U=i3æ±N® β<sup>1</sup> 0±± \ - 3 0 \ W ±±"  
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ææ<sup>-</sup> + β&om.g±± " F 3DTM→y<sup>1</sup> z/( =•Dë<  
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$$\sim kf \frac{x^0}{x\mu} j \div_{\beta} \quad \%0$$

$$kf \frac{x}{\beta\mu} j \left( \div_{\beta} j \frac{x}{OR} \right) j \div_0 \quad \%0$$

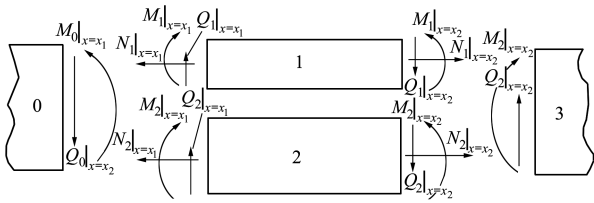
$$\sim k \div_{\beta} j \div_{\beta} j \div_0^0 \quad \%0$$

$$\beta k \div_{\beta} j \left( \div_{\beta} f 0 \frac{\mu}{R} \div_{\beta} \right) j \frac{\beta}{0} \div_{\beta}^0 j \frac{\beta}{\div_{\beta}} \quad \%0$$

$$\sim k \div_0 j \div_{\beta} j \div_0^0 \quad \%0$$

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 &_0 k \div_0 j \left( \div_0 f 0 \frac{\mu}{R} \div_0 \right) j \frac{\beta}{0} \div_{0B} j \frac{\beta}{0} \div_{00} \quad \%B" o \\
 &\sim kf \frac{x}{x\mu} j \div_{\beta} \quad \%B o \\
 &kf \frac{x}{\beta 0 \mu} j \left( \div_{\beta} j \frac{x}{0R} \right) j \div_0 \quad \%B@ \\
 &\sim_x k \frac{x \%0^0 f 0 ! o}{x\mu} j \div_{x\beta} \quad \%B o \\
 &x k \frac{x}{\beta 0 \mu} f \frac{x!}{x\mu} j \left( \div_{x\beta} f \frac{x}{0R} \right) j \div_{x0} \quad \%B o
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 - v 2 È 3 ½ + m.g % 9 B s k B " E B s k B 1 Y B  
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 &9_B s_{k_B} j 9_0 s_{k_B} f \ddot{Y}_B s_{k_B} \frac{Y}{0} j \\
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$$\begin{aligned}
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 &< \ddot{A} ] \hat{a}
 \end{aligned}$$

$$\begin{aligned}
 &\ddot{Y}_B s_{k_B} k \ddot{Y}_B s_{k_0} k \ddot{Y} \quad \%0 x o \\
 &\ddot{Y}_0 s_{k_B} k \ddot{Y}_0 s_{k_0} kf \ddot{Y} \quad \%0" o \\
 &< Z " \ddot{Y} \setminus ^\wedge \gg = i3ae \pm \dots U59 BB \pm \pm " > \dot{E} + \pm i \%
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$$\begin{aligned}
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 &9_x \%0 o k \frac{x}{0} \%B f o \quad \%0 o \\
 &E_1 \%0 o k \frac{x}{0} \text{æ} E \%0 o k \frac{x}{0} \\
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3 %0 x o < 2 %0 o < ' \ - E 4 æ / 8 %0 o < ;  
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$$9_B s_{k_B} j 9_0 s_{k_B} f \ddot{Y}_0 \frac{Y}{0} f \frac{x}{0} B k! \%0 o$$

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 \end{aligned}$$

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 / 8 A E ±

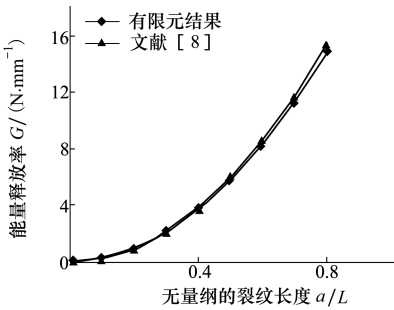
$$\begin{aligned}
 &\frac{\ddot{Y}_9}{\hat{U}_0} j \frac{\ddot{Y}_9}{\hat{U}_B} k \%0_1 s_{k_B} f \sim s_{k_0} o \frac{Y j Y}{0} \%0 x o \\
 &3 \%0 x o < ' \%0 o < " E 4 \ - æ / 8 F ú Y A E g \\
 &9_1 s_{k_B} k 9_B s_{k_B} j 9_0 s_{k_B} j \\
 &\text{æ} \frac{\ddot{Y}}{x 9} \%0_1 s_{k_B} f \sim s_{k_0} o \frac{\hat{U}_B \hat{U}_0}{\hat{U}_j \hat{U}_0} \%0" o
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æ æ - + B & o m . g " J - Ó g 9 + ± = i3ae ± 6 \* F ü F ÷ k ( ' \ = i3ae 0 1 0 + ± 6 \* F ü F ÷ k ( ' + ± 1 % € L - > @ Q Ú = i3ae S - , " J , m W æ > - , + ± # F ^ L - > @ 3 X = i3ae 0 1 0 + ± 6 \* F ü F ÷ k ( ' % = i3ae 0 + ± - v È 9\_B s\_{k\_B} " 9\_0 s\_{k\_B} " 9\_1 s\_{k\_B} " E\_B s\_{k\_B} " E\_0 s\_{k\_B} " E\_1 s\_{k\_B} 1 Y à Ç 3 = i3ae 0 + ± 6 \* F ü F ÷ k ( ' ) ; " & » = i3ae 0 + ± 6 \* F ü F ÷ k ( ' ) ; \ - d + ± E 3 % = i3ae 0 + ± 6 \* F ü F ÷ k ( ' ) ; 1 0 + ± 6 \* F ü F ÷ k ( ' ) ; + ± = • D e < 3 X \ \hat{a}

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 \text{æ} & \frac{\% \theta_{\beta} s_{k_{\beta}} o^0}{\mathcal{G}} j \frac{\% \theta_{\beta} s_{k_{\beta}} o^0}{\mathcal{G}} j \frac{\% \theta_0 s_{k_{\beta}} o^0}{\mathcal{G}} f \\
 \text{æ} & \frac{\% \theta_{\beta} s_{k_{\beta}} o^0}{\mathcal{G}} j \frac{\ddot{Y}_0}{\mathcal{G}} j \frac{\ddot{Y}_0}{\mathcal{G}} \text{Ò} \quad \% \text{O} \\
 )_t & \frac{\beta}{0} \frac{\% \theta_{\beta} s_{k_0} o^0}{\beta \mathcal{G}} j \frac{\% \theta_0 s_{k_0} o^0}{0 \mathcal{G}} f \\
 \text{æ} & \frac{\% \theta_{\beta} s_{k_0} o^0}{\mathcal{G}} j \frac{\% \theta_{\beta} s_{k_0} o^0}{\mathcal{G}} j \frac{\% \theta_0 s_{k_0} o^0}{\mathcal{G}} f \\
 \text{æ} & \frac{\% \theta_{\beta} s_{k_0} o^0}{\mathcal{G}} j \frac{\ddot{Y}_0}{\mathcal{G}} j \frac{\ddot{Y}_0}{\mathcal{G}} \text{Ò} \quad \% \text{O}
 \end{aligned}$$

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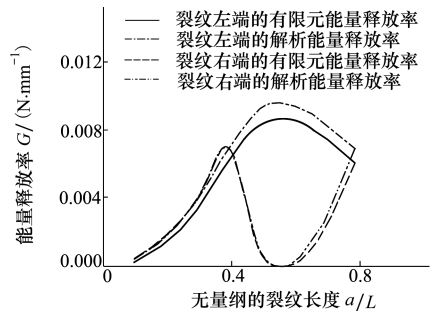
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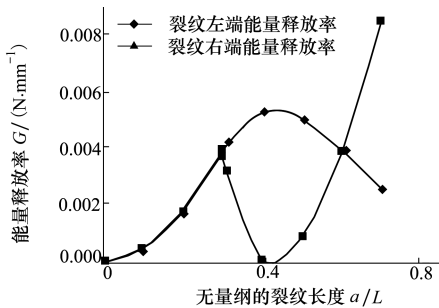
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 NFü %o ß" XêUE@ô./ 3' !o Ä6\*FüF÷k(  
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 + " m.g %ß = •.g = i3æ 0 ±±z 4> " Y Ñk ßÑ = •;  
 =i3æm U Ç Ó æ> ±± ßÑ z 4> %4 É = •; ? ½±±6\*  
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+ "æ6K} p4 É 1 ? ¼ É &!

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 0 ±±6\*FüF÷k(' 4 4 7 t " ] Dë@ i ; - ø 8 Kz"  
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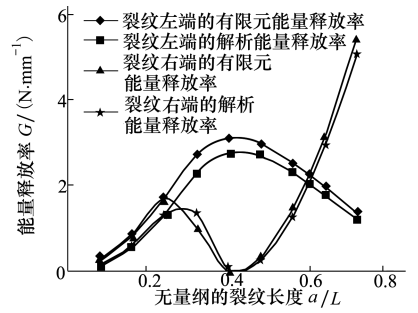
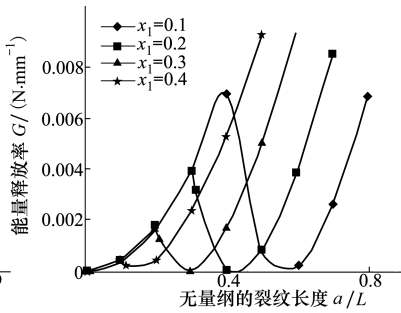
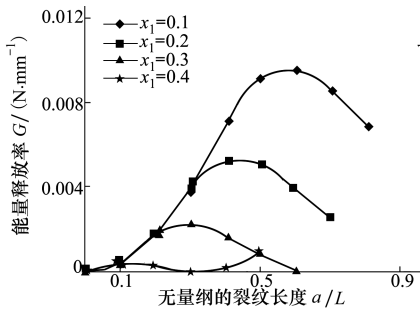


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 \ S - , ý È È > %gO'@EGDô' æ" Ä ] ±±: 5  
 } AEO 5 - Z=i3æ±±6\*FüF÷k(' "' /ø 3 J' o M\$¼  
 g !. ð. ð! ð Ò ±± 0x o o 5 - 6K} p N , %  
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 o ±± } A E < T g à ß %ßx HêU' o %o %o Ž" HêU'  
 ) o %o Ž x HêU' ) ßo %ß %x Ž" HêU' e\_ßo %e\_ßo %y " e\_ßo  
 %ß Ž" %o 5 - @ ±± J - Ó ! % @ Ž" ] ] " Ç Ó Y % x Ž 0  
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 † ‡ • d ç ' @ ) 3 @ ç E / 5 < = i 3 æ - Ó 3 ½ ± ± æ C E  
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 Ç Ó æ > ± ± 2 M 5 0 ; ~ + e U 6 % æ 4 ± z Z " @ N y ç  
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BÖæXöii i > Ž • ç ù q w ! • ç > ç k > X • ) ' Ö U j = U æ ç ù ð í . Ö Ž • ù ç U • i w l X ù d U ç ù U ç ù è d f ç ù • i • = "   
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