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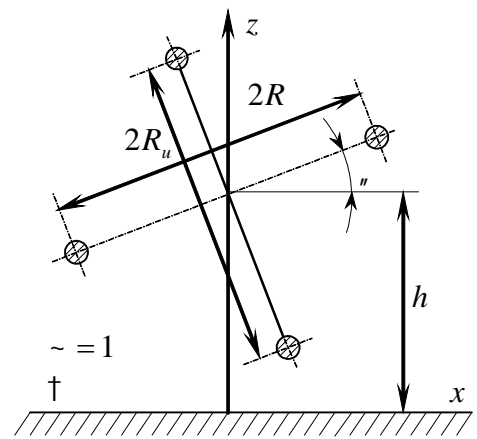
620.179.14

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[1].

[2].

(. 1).



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1: 2R - ; h - ; ~ -
 2R - ; " -
 † -
 y

$$\begin{aligned}
 U = & \frac{i\tilde{S}_0 I\tilde{S} \tilde{S} tR}{f} \left\{ \int_0^\infty \frac{\cos yS \left(\frac{\cos \alpha}{t} - t \sin \alpha \right)}{y} \times \right. \\
 & \times \left[\exp(-yS (r - t \cos \alpha + \frac{\sin \alpha}{t})) + \exp(-yS (r + t \cos \alpha - \frac{\sin \alpha}{t})) \right] \times \\
 & \times \frac{y - \sqrt{y^2 + i}}{y + \sqrt{y^2 + i}} dy - \int_0^\infty \frac{\cos yS \left(\frac{\cos \alpha}{t} + t \sin \alpha \right)}{y} \times \\
 & \times \left[\exp(-yS (r - t \cos \alpha - \frac{\sin \alpha}{t})) + \exp(-yS (r + t \cos \alpha + \frac{\sin \alpha}{t})) \right] \times \\
 & \left. \times \frac{y - \sqrt{y^2 + i}}{y + \sqrt{y^2 + i}} dy \right\},
 \end{aligned}$$

$$\begin{aligned}
 U = & \dots ; k^2 = -i\tilde{S}t ; \\
 i = \sqrt{-1} = & \dots ; \tilde{S}_0 = \dots ; S = \dots \\
 & \dots ; I = \dots ; \\
 y = & \langle / \sqrt{\tilde{S}t \tilde{S}_0} (\langle - \dots)
 \end{aligned}$$

$$r = 2h/R; \quad s = R\sqrt{\tilde{S}t_0}; \quad t = \sqrt{R} / \sqrt{R};$$

$$R = \sqrt{R R}.$$

: 1. : 7 -
 . . 2: 2 . - : , 2003. - 688 .: . 2. . , . . -
 1990. - 6. - .74-79. // .-

621.313

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 . .

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 () -
 [1].

 () -
 () -
 . 15 . 220 , [2].
 .1.
 =2, h=0,15 ,
 $d_{se}=0,272$, $d_r=0,184$, $\delta=0,5$.
 V7 -
 dxf

FEMM [3].