

Výsledky zápočtové písemky

ano/me Prut $\begin{matrix} 1 & 2 \\ 1 & 1 \end{matrix}$

$b = 0.1 \text{ m}$ $E = 3.00\text{E}+07$ $k\text{Pa}$
 $h = 0.5 \text{ m}$ $\alpha = 1.00\text{E}-05$ k^{-1}
 $L = 5 \text{ m}$ $A = 5.00\text{E}-02$ m^2
 $\gamma = 0^\circ$ $I = 1.04\text{E}-03$ m^4

$\sin\theta = 0$ $\cos\theta = 1$ $1.0416667\text{E}-03$

$[K12] =$

u1	w1	q1	u2	w2	q2
300000	0	0	-300000	0	0
0	750	-3750	0	-750	0
0	-3750	18750	0	3750	0
-300000	0	0	300000	0	0
0	-750	3750	0	750	0
0	0	0	0	0	0

$\Delta T_h = 0^\circ\text{C}$
 $\Delta T_d = 0^\circ\text{C}$

$[R12] =$

u1	w1	q1	u2	w2	q2
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

$[R12] =$

X1	Z1	M1	X2	Z2	M2
0	0	0	0	0	0
0	-4.75	0	0	0	0
0	3.75	0	0	0	0
0	0	0	0	0	0
0	-15.25	0	0	0	0
0	0	0	0	0	0

$[R12] =$

X1	Z1	M1	X2	Z2	M2
0	0	0	0	0	0
0	-4.75	0	0	0	0
0	3.75	0	0	0	0
0	0	0	0	0	0
0	-15.25	0	0	0	0
0	0	0	0	0	0

$[R12] =$

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0	0	0	0	0	0
0	-4.75	0	0	0	0
0	3.75	0	0	0	0
0	0	0	0	0	0
0	-15.25	0	0	0	0
0	0	0	0	0	0

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0	-4.75	0	0	0	0
0	3.75	0	0	0	0
0	0	0	0	0	0
0	-15.25	0	0	0	0
0	0	0	0	0	0

$[R12] =$

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0	-4.75	0	0	0	0
0	3.75	0	0	0	0
0	0	0	0	0	0
0	-15.25	0	0	0	0
0	0	0	0	0	0

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0	-4.75	0	0	0	0
0	3.75	0	0	0	0
0	0	0	0	0	0
0	-15.25	0	0	0	0
0	0	0	0	0	0

$[R12] =$

X1	Z1	M1	X2	Z2	M2
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0	-4.75	0	0	0	0
0	3.75	0	0	0	0
0	0	0	0	0	0
0	-15.25	0	0	0	0
0	0	0	0	0	0

$[R12] =$

X1	Z1	M1	X2	Z2	M2
0	0	0	0	0	0
0	-4.75	0	0	0	0
0	3.75	0	0	0	0
0	0	0	0	0	0
0	-15.25	0	0	0	0
0	0	0	0	0	0

$[R12] =$

X1	Z1	M1	X2
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Figure 1 illustrates the iterative calculation of the inverse of a 2x2 matrix A . The process starts with an initial guess $R_0 = 0$ and iteratively refines it using the formula $R_{k+1} = R_k + (I - AR_k)$. The iterations are shown for $k=1, 2, 3, 4, 5, 6, 7, 8, 9, 10$. The final result is $R_{10} = \frac{1}{193020} \begin{bmatrix} 408480 & 143640 \\ 143940 & 193020 \end{bmatrix}$.

