Code in CANVAS 3 code le chure S. m The code follows this procedure except it used dof numbering on B: 132 F: 374 C:536 D: 738 D TRUSSES Thermal loads in 1 DTruss (from HWI) $\sqrt{=E\left(\frac{82-81}{1}\right)-E} \propto \Delta$ C = GJO = 362-= $S = S m \theta = \frac{y_2 - y_1}{2}$ $\begin{bmatrix}
F_1 \\
F_2
\end{bmatrix} = EA \begin{bmatrix}
I \\
-I \\
I
\end{bmatrix}
\begin{bmatrix}
S_1 \\
S_2
\end{bmatrix} + \begin{bmatrix}
EA \times \Delta T \\
-EA \times \Delta T
\end{bmatrix}
\begin{bmatrix}
F_{1x}' \\
F_{2y}' \\
F_{2x}' \\
F_{2y}'
\end{bmatrix} = \begin{bmatrix}
C \\
O \\
C \\
S
\end{bmatrix}$

$$\begin{bmatrix}
F_{1x} \\
F_{2x'} \\
F_{2x'}
\end{bmatrix} = \begin{bmatrix}
C & O \\
S & O \\
C & C \\
O & S
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2y'}
\end{bmatrix} = \begin{bmatrix}
C & O \\
S & O \\
C & C \\
O & S
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2x'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2x'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{1y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{1y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{1y'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2x'}
\end{bmatrix}$$

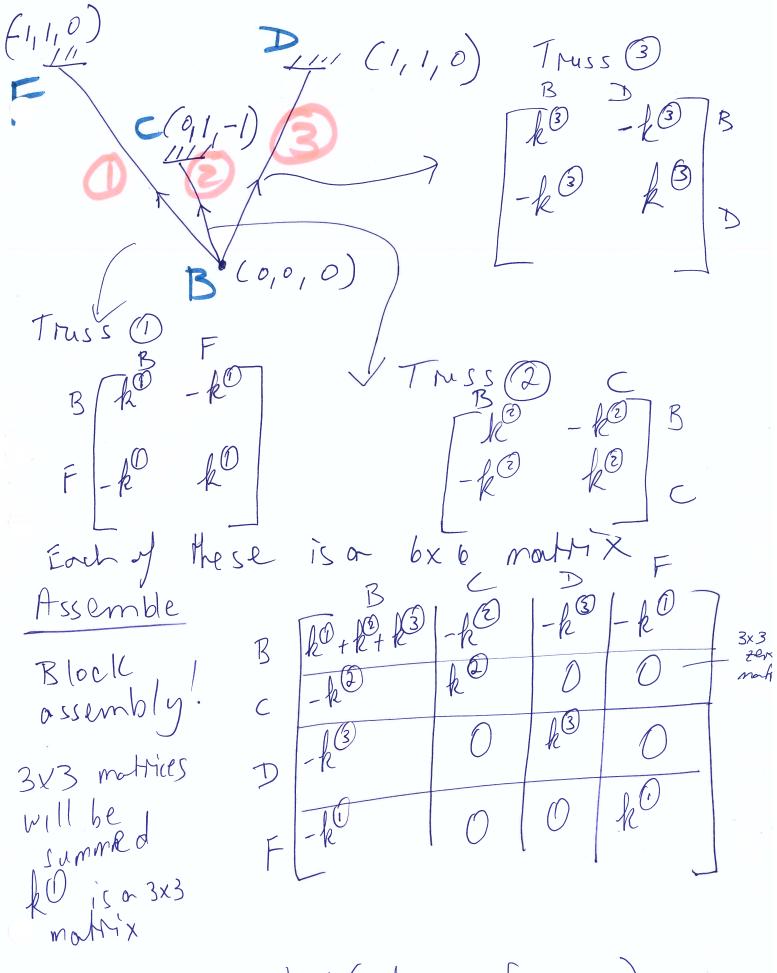
$$\begin{bmatrix}
F_{1x} \\
F_{2x'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{1x} \\
F_{2x'}
\end{bmatrix}$$

$$\begin{bmatrix}
F_{2x'} \\
F_{2x'}
\end{bmatrix}$$

When modifying the code, and EAXAT [-c to the 'lad force' in the for loop over Nelements. i.e. local force = EAXAT [-5] Post process: Stress $T = E(s_2 - s_1) - E \times DT$ T = E = C - S C S Six' - Ex A T Six' Sax' Sax' bothe code $S_z = c S_{2x'} + s S_{2y'}$

TRUSSES 8271 $\int_{S_{2}} \int_{S_{2}} \int_{S$ 8,21 $\begin{bmatrix} S_1 \\ S_2 \end{bmatrix} = \begin{bmatrix} 0 & m & n & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & m & n \\ 0 & 0 & 0 & 0 & m & n \end{bmatrix} \begin{bmatrix} S_{1x} \\ S_{1y} \\ S_{1z} \\ S_{1z} \end{bmatrix}$ (81X1 $\ell = \chi_1 - \chi_1$ Lensth = 42-41 Length Fazi



CODE I posted (changes for 3D) Lot = 3 , Stress formula, correliate matrix Thermal loads (3) EAXAT [-l] to local force

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