

$$\begin{pmatrix} 3470. \\ 3840. \\ 0 \\ 5. \times 10^{10} \\ -8. \\ 4000. \\ 15\,900. \\ 17\,500. \\ -90.1 \\ 1. \\ 3840. \\ 19.3 \\ -5.47 \\ -1.08 \\ 5. \times 10^{10} \end{pmatrix}$$