

$$P_{coef} = \begin{bmatrix} \text{"1"} & 1.00 & 630.10 \frac{\text{kg}}{\text{m s}^2} & 14.37 \text{ m}^2 & 9057.35 \frac{\text{kg m}}{\text{s}^2} & 9057.35 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 0.00 & 9.22 \text{ m} & 7.57 \text{ m} & 2.29 \text{ m} & 0.00 & 0.00 & 20705.10 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & 68582.25 \frac{\text{kg m}^2}{\text{s}^2} & 68582.25 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"1E"} & 1.50 & 945.16 \frac{\text{kg}}{\text{m s}^2} & 27.43 \text{ m}^2 & 25927.53 \frac{\text{kg m}}{\text{s}^2} & 25927.53 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 0.00 & 9.22 \text{ m} & 3.00 \text{ m} & 2.29 \text{ m} & 0.00 & 0.00 & 59270.33 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & 77782.58 \frac{\text{kg m}^2}{\text{s}^2} & 77782.58 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"2"} & -1.30 & -819.14 \frac{\text{kg}}{\text{m s}^2} & 15.63 \text{ m}^2 & -12805.09 \frac{\text{kg m}}{\text{s}^2} & -4796.87 \frac{\text{kg m}}{\text{s}^2} & 0.00 & -11872.68 \frac{\text{kg m}}{\text{s}^2} & 6.92 \text{ m} & 7.57 \text{ m} & 5.50 \text{ m} & 0.00 & -89899.90 \frac{\text{kg m}^2}{\text{s}^2} & -26398.63 \frac{\text{kg m}^2}{\text{s}^2} & -82101.34 \frac{\text{kg m}^2}{\text{s}^2} & -36321.92 \frac{\text{kg m}^2}{\text{s}^2} & -36321.92 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"2E"} & -2.00 & -1260.21 \frac{\text{kg}}{\text{m s}^2} & 29.83 \text{ m}^2 & -37595.69 \frac{\text{kg m}}{\text{s}^2} & -14083.60 \frac{\text{kg m}}{\text{s}^2} & 0.00 & -34858.12 \frac{\text{kg m}}{\text{s}^2} & 6.92 \text{ m} & 3.00 \text{ m} & 5.50 \text{ m} & 0.00 & -1.05 \cdot 10^5 \frac{\text{kg m}^2}{\text{s}^2} & -77506.26 \frac{\text{kg m}^2}{\text{s}^2} & -2.41 \cdot 10^5 \frac{\text{kg m}^2}{\text{s}^2} & -42250.79 \frac{\text{kg m}^2}{\text{s}^2} & -42250.79 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"3"} & -0.90 & -567.09 \frac{\text{kg}}{\text{m s}^2} & -15.63 \text{ m}^2 & 8865.06 \frac{\text{kg m}}{\text{s}^2} & 3320.91 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 8219.54 \frac{\text{kg m}}{\text{s}^2} & 2.31 \text{ m} & 7.57 \text{ m} & 5.50 \text{ m} & 0.00 & 62238.39 \frac{\text{kg m}^2}{\text{s}^2} & 18275.98 \frac{\text{kg m}^2}{\text{s}^2} & 18946.46 \frac{\text{kg m}^2}{\text{s}^2} & 25145.94 \frac{\text{kg m}^2}{\text{s}^2} & 25145.94 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"3E"} & -1.30 & -819.14 \frac{\text{kg}}{\text{m s}^2} & -29.83 \text{ m}^2 & 24437.20 \frac{\text{kg m}}{\text{s}^2} & 9154.34 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 22657.78 \frac{\text{kg m}}{\text{s}^2} & 2.31 \text{ m} & 3.00 \text{ m} & 5.50 \text{ m} & 0.00 & 67973.34 \frac{\text{kg m}^2}{\text{s}^2} & 50379.07 \frac{\text{kg m}^2}{\text{s}^2} & 52227.31 \frac{\text{kg m}^2}{\text{s}^2} & 27463.01 \frac{\text{kg m}^2}{\text{s}^2} & 27463.01 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"4"} & -0.80 & -504.08 \frac{\text{kg}}{\text{m s}^2} & 14.37 \text{ m}^2 & -7245.88 \frac{\text{kg m}}{\text{s}^2} & -7245.88 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 0.00 & 0.00 & 7.57 \text{ m} & 2.29 \text{ m} & 0.00 & 0.00 & -16564.08 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & -54865.80 \frac{\text{kg m}^2}{\text{s}^2} & -54865.80 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"4E"} & -1.20 & -756.13 \frac{\text{kg}}{\text{m s}^2} & 27.43 \text{ m}^2 & -20742.02 \frac{\text{kg m}}{\text{s}^2} & -20742.02 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 0.00 & 0.00 & 3.00 \text{ m} & 2.29 \text{ m} & 0.00 & 0.00 & -47416.26 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & -62226.07 \frac{\text{kg m}^2}{\text{s}^2} & -62226.07 \frac{\text{kg m}^2}{\text{s}^2} \end{bmatrix}$$

$$P_{coef} = \begin{bmatrix} \text{"1"} & -0.85 & -535.59 \frac{\text{kg}}{\text{m s}^2} & 14.37 \text{ m}^2 & -7698.75 \frac{\text{kg m}}{\text{s}^2} & -7698.75 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 0.00 & 9.22 \text{ m} & 7.57 \text{ m} & 2.29 \text{ m} & 0.00 & 0.00 & -17599.34 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & -58294.91 \frac{\text{kg m}^2}{\text{s}^2} & -58294.91 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"1E"} & -0.90 & -567.09 \frac{\text{kg}}{\text{m s}^2} & 27.43 \text{ m}^2 & -15556.52 \frac{\text{kg m}}{\text{s}^2} & -15556.52 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 0.00 & 9.22 \text{ m} & 3.00 \text{ m} & 2.29 \text{ m} & 0.00 & 0.00 & -35562.20 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & -46669.55 \frac{\text{kg m}^2}{\text{s}^2} & -46669.55 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"2"} & -1.30 & -819.14 \frac{\text{kg}}{\text{m s}^2} & 15.63 \text{ m}^2 & -12805.09 \frac{\text{kg m}}{\text{s}^2} & -4796.87 \frac{\text{kg m}}{\text{s}^2} & 0.00 & -11872.68 \frac{\text{kg m}}{\text{s}^2} & 6.92 \text{ m} & 7.57 \text{ m} & 5.50 \text{ m} & 0.00 & -89899.90 \frac{\text{kg m}^2}{\text{s}^2} & -26398.63 \frac{\text{kg m}^2}{\text{s}^2} & -82101.34 \frac{\text{kg m}^2}{\text{s}^2} & -36321.92 \frac{\text{kg m}^2}{\text{s}^2} & -36321.92 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"2E"} & -2.00 & -1260.21 \frac{\text{kg}}{\text{m s}^2} & 29.83 \text{ m}^2 & -37595.69 \frac{\text{kg m}}{\text{s}^2} & -14083.60 \frac{\text{kg m}}{\text{s}^2} & 0.00 & -34858.12 \frac{\text{kg m}}{\text{s}^2} & 6.92 \text{ m} & 3.00 \text{ m} & 5.50 \text{ m} & 0.00 & -1.05 \cdot 10^5 \frac{\text{kg m}^2}{\text{s}^2} & -77506.26 \frac{\text{kg m}^2}{\text{s}^2} & -2.41 \cdot 10^5 \frac{\text{kg m}^2}{\text{s}^2} & -42250.79 \frac{\text{kg m}^2}{\text{s}^2} & -42250.79 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"3"} & -0.70 & -441.07 \frac{\text{kg}}{\text{m s}^2} & -15.63 \text{ m}^2 & 6895.05 \frac{\text{kg m}}{\text{s}^2} & 2582.93 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 6392.98 \frac{\text{kg m}}{\text{s}^2} & 2.31 \text{ m} & 7.57 \text{ m} & 5.50 \text{ m} & 0.00 & 48407.64 \frac{\text{kg m}^2}{\text{s}^2} & 14214.65 \frac{\text{kg m}^2}{\text{s}^2} & 14736.14 \frac{\text{kg m}^2}{\text{s}^2} & 19557.96 \frac{\text{kg m}^2}{\text{s}^2} & 19557.96 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"3E"} & -1.00 & -630.10 \frac{\text{kg}}{\text{m s}^2} & -29.83 \text{ m}^2 & 18797.85 \frac{\text{kg m}}{\text{s}^2} & 7041.80 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 17429.06 \frac{\text{kg m}}{\text{s}^2} & 2.31 \text{ m} & 3.00 \text{ m} & 5.50 \text{ m} & 0.00 & 52287.18 \frac{\text{kg m}^2}{\text{s}^2} & 38753.13 \frac{\text{kg m}^2}{\text{s}^2} & 40174.86 \frac{\text{kg m}^2}{\text{s}^2} & 21125.39 \frac{\text{kg m}^2}{\text{s}^2} & 21125.39 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"4"} & -0.85 & -535.59 \frac{\text{kg}}{\text{m s}^2} & 14.37 \text{ m}^2 & -7698.75 \frac{\text{kg m}}{\text{s}^2} & -7698.75 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 0.00 & 0.00 & 7.57 \text{ m} & 2.29 \text{ m} & 0.00 & 0.00 & -17599.34 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & -58294.91 \frac{\text{kg m}^2}{\text{s}^2} & -58294.91 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"4E"} & -0.90 & -567.09 \frac{\text{kg}}{\text{m s}^2} & 27.43 \text{ m}^2 & -15556.52 \frac{\text{kg m}}{\text{s}^2} & -15556.52 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 0.00 & 0.00 & 3.00 \text{ m} & 2.29 \text{ m} & 0.00 & 0.00 & -35562.20 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & -46669.55 \frac{\text{kg m}^2}{\text{s}^2} & -46669.55 \frac{\text{kg m}^2}{\text{s}^2} \\ \text{"5"} & 0.75 & 472.58 \frac{\text{kg}}{\text{m s}^2} & 40.85 \text{ m}^2 & 19306.26 \frac{\text{kg m}}{\text{s}^2} & 0.00 & -7698.75 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 3.70 \text{ m} & 0.00 & 5.37 \text{ m} & -41323.31 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & 0.00 & 0.00 & 0.00 & 0.00 \\ \text{"5E"} & 1.15 & 724.62 \frac{\text{kg}}{\text{m s}^2} & 9.89 \text{ m}^2 & 7165.40 \frac{\text{kg m}}{\text{s}^2} & 0.00 & -15556.52 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 8.31 \text{ m} & 0.00 & 4.94 \text{ m} & -76871.62 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & 0.00 & 0.00 & 0.00 & 0.00 \\ \text{"6"} & -0.55 & -346.56 \frac{\text{kg}}{\text{m s}^2} & 40.85 \text{ m}^2 & -14157.92 \frac{\text{kg m}}{\text{s}^2} & 0.00 & -12805.09 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 3.70 \text{ m} & 9.14 \text{ m} & 5.37 \text{ m} & -68731.82 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & 0.00 & 0.00 & 0.00 & 0.00 \\ \text{"6E"} & -0.80 & -504.08 \frac{\text{kg}}{\text{m s}^2} & 9.89 \text{ m}^2 & -4984.62 \frac{\text{kg m}}{\text{s}^2} & 0.00 & -37595.69 \frac{\text{kg m}}{\text{s}^2} & 0.00 & 8.31 \text{ m} & 9.14 \text{ m} & 4.94 \text{ m} & -1.86 \cdot 10^5 \frac{\text{kg m}^2}{\text{s}^2} & 0.00 & 0.00 & 0.00 & 0.00 & 0.00 \end{bmatrix}$$