

	<table><tr><th>m_1</th><th>m_0</th><th>k</th><th>c</th><th>g</th><th>k_{pen}</th><th>F_{ext}</th></tr><tr><td>50</td><td>0</td><td>1e6</td><td>$2e-1 \cdot \sqrt{(m_1 \cdot k)}$</td><td>2e-5</td><td>1e8</td><td>10</td></tr></table>	m_1	m_0	k	c	g	k_{pen}	F_{ext}	50	0	1e6	$2e-1 \cdot \sqrt{(m_1 \cdot k)}$	2e-5	1e8	10				
m_1	m_0	k	c	g	k_{pen}	F_{ext}													
50	0	1e6	$2e-1 \cdot \sqrt{(m_1 \cdot k)}$	2e-5	1e8	10													
	<p>to add on the first coefficient of the global matrices. The damping matrix is obtained using the Rayleigh damping with ζ the damping factor and $\omega_0 = 65952$ [rad/s] the natural pulsation of the studied mode. The damping matrix is given by</p> $\mathbb{C} = \zeta \omega_0 \mathbb{M} + \frac{\zeta}{\omega_0} \mathbb{K}$ <table><tr><th>ρ</th><th>A</th><th>E</th><th>L</th><th>N</th><th>\mathbb{M}_e</th><th>\mathbb{K}_e</th><th>ζ</th><th>g</th></tr><tr><td>7.8e3</td><td>15.6e-4</td><td>210e9</td><td>12.748e-2</td><td>20</td><td>$\frac{\rho AL}{3N} \begin{bmatrix} 1 & -\frac{1}{2} \\ -\frac{1}{2} & 1 \end{bmatrix}$</td><td>$\frac{EAN}{L} \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix}$</td><td>8e-2</td><td>2e-4</td></tr></table>	ρ	A	E	L	N	\mathbb{M}_e	\mathbb{K}_e	ζ	g	7.8e3	15.6e-4	210e9	12.748e-2	20	$\frac{\rho AL}{3N} \begin{bmatrix} 1 & -\frac{1}{2} \\ -\frac{1}{2} & 1 \end{bmatrix}$	$\frac{EAN}{L} \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix}$	8e-2	2e-4
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	<table><tr><th>m_j</th><th>c_j</th><th>k_j</th><th>μN</th><th>F_{ext}</th><th>N</th></tr><tr><td>1</td><td>1</td><td>1</td><td>0.3^2</td><td>0.1</td><td>{15, 40, 90, 290}</td></tr></table>	m_j	c_j	k_j	μN	F_{ext}	N	1	1	1	0.3^2	0.1	{15, 40, 90, 290}						
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m_1	m_2	c	k	k_{12}	μN	F_{ext}													
1	1	1e-02	1	1	0.15	1													

All units are SI