Solving for c_1 and c_2

$$oldsymbol{c} = \begin{bmatrix} c_1 \\ c_2 \end{bmatrix} \qquad \mathrm{d} oldsymbol{p} = \begin{bmatrix} \mathrm{d} p_z \\ \mathrm{d} p_x \end{bmatrix}$$

$$d\mathbf{p} = J \cdot \mathbf{c}$$
$$\mathbf{c} = J^{-1} \cdot d\mathbf{p}$$