$$j_{1,\,out,\,x,\,R} - j_{1,\,inc,\,x,\,R} = -\frac{896\,D_0 j_{1,\,out,\,x,\,R}}{25\,Deltax} - \frac{896\,D_0 j_{1,\,inc,\,x,\,R}}{25\,Deltax} - \frac{128\,D_0 j_{3,\,out,\,x,\,R}}{5\,Deltax} - \frac{128\,D_0 j_{3,\,inc,\,x,\,R}}{5\,Deltax}$$
$$- \frac{224\,D_0 j_{1,\,out,\,x,\,L}}{25\,Deltax} - \frac{224\,D_0 j_{1,\,inc,\,x,\,L}}{25\,Deltax} - \frac{32\,D_0 j_{3,\,out,\,x,\,L}}{5\,Deltax} - \frac{32\,D_0 j_{3,\,inc,\,x,\,L}}{5\,Deltax} + \frac{20\,D_0\,\bar{\Phi}_0}{Deltax}$$
$$+ \frac{60\,D_0\,\bar{\Phi}_{0,\,x,\,1}}{Deltax} + \frac{140\,D_0\,\bar{\Phi}_{0,\,x,\,2}}{Deltax}$$

$$j_{1,\,out,\,x,\,L} - j_{1,\,inc,\,x,\,L} = -\frac{224\,D_0 j_{1,\,out,\,x,\,R}}{25\,Deltax} - \frac{224\,D_0 j_{1,\,inc,\,x,\,R}}{25\,Deltax} - \frac{32\,D_0 j_{3,\,out,\,x,\,R}}{5\,Deltax} - \frac{32\,D_0 j_{3,\,inc,\,x,\,R}}{5\,Deltax}$$
$$- \frac{896\,D_0 j_{1,\,out,\,x,\,L}}{25\,Deltax} - \frac{896\,D_0 j_{1,\,inc,\,x,\,L}}{25\,Deltax} - \frac{128\,D_0 j_{3,\,out,\,x,\,L}}{5\,Deltax} - \frac{128\,D_0 j_{3,\,inc,\,x,\,L}}{5\,Deltax} + \frac{20\,D_0\,\bar{\Phi}_0}{Deltax}$$
$$- \frac{60\,D_0\,\bar{\Phi}_{0,\,x,\,1}}{Deltax} + \frac{140\,D_0\,\bar{\Phi}_{0,\,x,\,2}}{Deltax}$$

$$j_{3,\,out,\,x,\,R} - j_{3,\,inc,\,x,\,R} = -\frac{368\,D_2 j_{1,\,out,\,x,\,R}}{25\,Deltax} - \frac{368\,D_2 j_{1,\,inc,\,x,\,R}}{25\,Deltax} - \frac{472\,D_2 j_{3,\,out,\,x,\,R}}{15\,Deltax} - \frac{472\,D_2 j_{3,\,inc,\,x,\,R}}{15\,Deltax}$$
$$+ \frac{208\,D_2 j_{1,\,out,\,x,\,L}}{25\,Deltax} + \frac{208\,D_2 j_{1,\,inc,\,x,\,L}}{25\,Deltax} - \frac{56\,D_2 j_{3,\,out,\,x,\,L}}{5\,Deltax} - \frac{56\,D_2 j_{3,\,inc,\,x,\,L}}{5\,Deltax} + \frac{20\,D_2\,\bar{\phi}_2}{Deltax}$$
$$+ \frac{60\,D_2\,\bar{\phi}_{2,\,x,\,1}}{Deltax} + \frac{140\,D_2\,\bar{\phi}_{2,\,x,\,2}}{Deltax}$$

$$j_{3,\,out,\,x,\,L} - j_{3,\,inc,\,x,\,L} = \frac{208\,D_2 j_{1,\,out,\,x,\,R}}{25\,Deltax} + \frac{208\,D_2 j_{1,\,inc,\,x,\,R}}{25\,Deltax} - \frac{56\,D_2 j_{3,\,out,\,x,\,R}}{5\,Deltax} - \frac{56\,D_2 j_{3,\,inc,\,x,\,R}}{5\,Deltax}$$
$$- \frac{368\,D_2 j_{1,\,out,\,x,\,L}}{25\,Deltax} - \frac{368\,D_2 j_{1,\,inc,\,x,\,L}}{25\,Deltax} - \frac{472\,D_2 j_{3,\,out,\,x,\,L}}{15\,Deltax} - \frac{472\,D_2 j_{3,\,inc,\,x,\,L}}{15\,Deltax} + \frac{20\,D_2\,\bar{\phi}_2}{Deltax}$$
$$- \frac{60\,D_2\,\bar{\phi}_{2,\,x,\,1}}{Deltax} + \frac{140\,D_2\,\bar{\phi}_{2,\,x,\,2}}{Deltax}$$

$$\bar{\Phi}_0 = 2\,\bar{\phi}_2 + \frac{S_0}{\Sigma_{rem,\,0}} - \frac{j_{1,\,out,\,x,\,R}}{\Sigma_{rem,\,0}\,Deltax} + \frac{j_{1,\,inc,\,x,\,R}}{\Sigma_{rem,\,0}\,Deltax} - \frac{j_{1,\,out,\,x,\,L}}{\Sigma_{rem,\,0}\,Deltax} + \frac{j_{1,\,inc,\,x,\,L}}{\Sigma_{rem,\,0}\,Deltax}$$
$$- \frac{j_{1,\,out,\,y,\,R}}{\Sigma_{rem,\,0}\,Deltay} + \frac{j_{1,\,inc,\,y,\,R}}{\Sigma_{rem,\,0}\,Deltay} - \frac{j_{1,\,out,\,y,\,L}}{\Sigma_{rem,\,0}\,Deltay} + \frac{j_{1,\,inc,\,y,\,L}}{\Sigma_{rem,\,0}\,Deltay} - \frac{j_{1,\,out,\,z,\,R}}{\Sigma_{rem,\,0}\,Deltaz}$$
$$+ \frac{j_{1,\,inc,\,z,\,R}}{\Sigma_{rem,\,0}\,Deltaz} - \frac{j_{1,\,out,\,z,\,L}}{\Sigma_{rem,\,0}\,Deltaz} + \frac{j_{1,\,inc,\,z,\,L}}{\Sigma_{rem,\,0}\,Deltaz}$$

$$\bar{\Phi}[0,\,x,\,1] = -\frac{8\,D_0 j_{3,\,out,\,x,\,R}}{5\,\Sigma_{rem,\,0}\,Deltax^2} + \frac{8\,D_0 j_{3,\,out,\,x,\,L}}{5\,\Sigma_{rem,\,0}\,Deltax^2} - \frac{8\,D_0 j_{3,\,inc,\,x,\,R}}{5\,\Sigma_{rem,\,0}\,Deltax^2} + \frac{8\,D_0 j_{3,\,inc,\,x,\,L}}{5\,\Sigma_{rem,\,0}\,Deltax^2}$$
$$- \frac{\left(\frac{1}{2\,Deltax} + \frac{56\,D_0}{25\,Deltax^2}\right) j_{1,\,out,\,x,\,R}}{\Sigma_{rem,\,0}} - \frac{\left(-\frac{1}{2\,Deltax} - \frac{56\,D_0}{25\,Deltax^2}\right) j_{1,\,out,\,x,\,L}}{\Sigma_{rem,\,0}}$$

$$- \frac{\left(- \frac{1}{2\,Deltax} + \frac{56\,D_0}{25\,Deltax^2} \right) j_{1,\,inc,\,x,\,R}}{\Sigma_{rem,\,0}} - \frac{\left(\frac{1}{2\,Deltax} - \frac{56\,D_0}{25\,Deltax^2} \right) j_{1,\,inc,\,x,\,L}}{\Sigma_{rem,\,0}} + 2\,\bar{\phi}_{2,\,x,\,1}$$
$$- \frac{L_{1,\,xz,\,1}}{\Sigma_{rem,\,0}\,Deltaz} - \frac{L_{1,\,xy,\,1}}{\Sigma_{rem,\,0}\,Deltay} + \frac{S_{0,\,x,\,1}}{\Sigma_{rem,\,0}}$$

$$\bar{\Phi}[0,\,x,\,2] = - \frac{24\,D_0 j_{3,\,out,\,x,\,L}}{5\,\Sigma_{rem,\,0}\,Deltax^2} - \frac{24\,D_0 j_{3,\,inc,\,x,\,R}}{5\,\Sigma_{rem,\,0}\,Deltax^2} - \frac{24\,D_0 j_{3,\,inc,\,x,\,L}}{5\,\Sigma_{rem,\,0}\,Deltax^2}$$
$$- \frac{\left(\frac{1}{2\,Deltax} + \frac{168\,D_0}{25\,Deltax^2} \right) j_{1,\,out,\,x,\,R}}{\Sigma_{rem,\,0}} - \frac{\left(\frac{1}{2\,Deltax} + \frac{168\,D_0}{25\,Deltax^2} \right) j_{1,\,out,\,x,\,L}}{\Sigma_{rem,\,0}}$$
$$- \frac{\left(- \frac{1}{2\,Deltax} + \frac{168\,D_0}{25\,Deltax^2} \right) j_{1,\,inc,\,x,\,R}}{\Sigma_{rem,\,0}} - \frac{\left(- \frac{1}{2\,Deltax} + \frac{168\,D_0}{25\,Deltax^2} \right) j_{1,\,inc,\,x,\,L}}{\Sigma_{rem,\,0}} + 2\,\bar{\phi}_{2,\,x,\,2}$$
$$+ \frac{6\,D_0\,\bar{\Phi}_0}{\Sigma_{rem,\,0}\,Deltax^2} + \frac{S_{0,\,x,\,2}}{\Sigma_{rem,\,0}} - \frac{L_{1,\,xz,\,2}}{\Sigma_{rem,\,0}\,Deltaz} - \frac{L_{1,\,xy,\,2}}{\Sigma_{rem,\,0}\,Deltay} - \frac{24\,D_0 j_{3,\,out,\,x,\,R}}{5\,\Sigma_{rem,\,0}\,Deltax^2}$$

$$\bar{\phi}[2] = \frac{5\,j_{3,\,out,\,x,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} - \frac{5\,j_{3,\,inc,\,x,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} + \frac{5\,j_{3,\,out,\,x,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax}$$
$$- \frac{5\,j_{3,\,inc,\,x,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} + \frac{5\,j_{3,\,out,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} - \frac{5\,j_{3,\,inc,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay}$$
$$+ \frac{5\,j_{3,\,out,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} - \frac{5\,j_{3,\,inc,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} + \frac{5\,j_{3,\,out,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz}$$
$$- \frac{5\,j_{3,\,inc,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz} + \frac{5\,j_{3,\,out,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz} - \frac{5\,j_{3,\,inc,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz}$$
$$+ \frac{2\,j_{1,\,out,\,x,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} - \frac{2\,j_{1,\,inc,\,x,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} + \frac{2\,j_{1,\,out,\,x,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax}$$
$$- \frac{2\,j_{1,\,inc,\,x,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} + \frac{2\,j_{1,\,out,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} - \frac{2\,j_{1,\,inc,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay}$$
$$+ \frac{2\,j_{1,\,out,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} - \frac{2\,j_{1,\,inc,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} + \frac{2\,j_{1,\,out,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz}$$
$$- \frac{2\,j_{1,\,inc,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz} + \frac{2\,j_{1,\,out,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz} - \frac{2\,j_{1,\,inc,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz}$$

$$\bar{\phi}[2,\,x,\,1] = - \frac{\left(\frac{1}{2\,Deltax} + \frac{32\,D_2}{15\,Deltax^2} \right) j_{3,\,out,\,x,\,R}}{\alpha} - \frac{\left(- \frac{1}{2\,Deltax} - \frac{32\,D_2}{15\,Deltax^2} \right) j_{3,\,out,\,x,\,L}}{\alpha}$$

$$-\frac{\left(-\frac{1}{2\,Deltax}+\frac{32\,D_2}{15\,Deltax^2}\right)j_{3,\,inc,\,x,\,R}}{\alpha}-\frac{\left(\frac{1}{2\,Deltax}-\frac{32\,D_2}{15\,Deltax^2}\right)j_{3,\,inc,\,x,\,L}}{\alpha}$$
$$-\frac{8\,D_2 j_{1,\,out,\,x,\,R}}{25\,\alpha\,Deltax^2}+\frac{8\,D_2 j_{1,\,out,\,x,\,L}}{25\,\alpha\,Deltax^2}-\frac{8\,D_2 j_{1,\,inc,\,x,\,R}}{25\,\alpha\,Deltax^2}+\frac{8\,D_2 j_{1,\,inc,\,x,\,L}}{25\,\alpha\,Deltax^2}+\frac{2\,\Sigma_{rem,\,0}\,\bar{\Phi}_{0,\,x,\,1}}{5\,\alpha}$$
$$-\frac{2\,S_{0,\,x,\,1}}{5\,\alpha}-\frac{L_{3,\,xz,\,1}}{\alpha\,Deltaz}-\frac{L_{3,\,xy,\,1}}{\alpha\,Deltay}$$

$$\bar{\phi}[2,x,2]=-\frac{\left(\frac{1}{2\,Deltax}+\frac{32\,D_2}{5\,Deltax^2}\right)j_{3,\,out,\,x,\,R}}{\alpha}-\frac{\left(\frac{1}{2\,Deltax}+\frac{32\,D_2}{5\,Deltax^2}\right)j_{3,\,out,\,x,\,L}}{\alpha}$$
$$-\frac{\left(-\frac{1}{2\,Deltax}+\frac{32\,D_2}{5\,Deltax^2}\right)j_{3,\,inc,\,x,\,R}}{\alpha}-\frac{\left(-\frac{1}{2\,Deltax}+\frac{32\,D_2}{5\,Deltax^2}\right)j_{3,\,inc,\,x,\,L}}{\alpha}$$
$$-\frac{24\,D_2 j_{1,\,out,\,x,\,R}}{25\,\alpha\,Deltax^2}-\frac{24\,D_2 j_{1,\,out,\,x,\,L}}{25\,\alpha\,Deltax^2}-\frac{24\,D_2 j_{1,\,inc,\,x,\,R}}{25\,\alpha\,Deltax^2}-\frac{24\,D_2 j_{1,\,inc,\,x,\,L}}{25\,\alpha\,Deltax^2}+\frac{6\,D_2\,\bar{\phi}_2}{\alpha\,Deltax^2}$$
$$+\frac{2\,\Sigma_{rem,\,0}\,\bar{\Phi}_{0,\,x,\,2}}{5\,\alpha}-\frac{2\,S_{0,\,x,\,2}}{5\,\alpha}-\frac{L_{3,\,xz,\,2}}{\alpha\,Deltaz}-\frac{L_{3,\,xy,\,2}}{\alpha\,Deltay}$$