$$j_{1, \, out, \, x, \, R} - j_{1, \, inc, \, x, \, R} = -\frac{896 \, D_0 \, j_{1, \, out, \, x, \, R}}{25 \, Deltax} - \frac{896 \, D_0 \, j_{1, \, inc, \, x, \, R}}{25 \, Deltax} - \frac{128 \, D_0 \, j_{3, \, out, \, x, \, R}}{5 \, Deltax} - \frac{128 \, D_0 \, j_{3, \, inc, \, x, \, R}}{5 \, Deltax}$$

$$- \frac{224 \, D_0 \, j_{1, \, out, \, x, \, L}}{25 \, Deltax} - \frac{224 \, D_0 \, j_{1, \, inc, \, x, \, L}}{25 \, Deltax} - \frac{32 \, D_0 \, j_{3, \, out, \, x, \, L}}{5 \, Deltax} - \frac{32 \, D_0 \, j_{3, \, inc, \, x, \, L}}{5 \, Deltax} + \frac{20 \, D_0 \, \overline{\Phi}_0}{Deltax}$$

$$+ \frac{60 \, D_0 \, \overline{\Phi}_{0, \, x, \, 1}}{Deltax} + \frac{140 \, D_0 \, \overline{\Phi}_{0, \, x, \, 2}}{Deltax}$$

$$j_{1, \, out, \, x, \, L} - j_{1, \, inc, \, x, \, L} = -\frac{224 \, D_0 \, j_{1, \, out, \, x, \, R}}{25 \, Deltax} - \frac{224 \, D_0 \, j_{1, \, inc, \, x, \, R}}{25 \, Deltax} - \frac{32 \, D_0 \, j_{3, \, out, \, x, \, R}}{5 \, Deltax} - \frac{32 \, D_0 \, j_{3, \, inc, \, x, \, R}}{5 \, Deltax}$$

$$- \frac{896 \, D_0 \, j_{1, \, out, \, x, \, L}}{25 \, Deltax} - \frac{896 \, D_0 \, j_{1, \, inc, \, x, \, L}}{25 \, Deltax} - \frac{128 \, D_0 \, j_{3, \, out, \, x, \, L}}{5 \, Deltax} - \frac{128 \, D_0 \, j_{3, \, inc, \, x, \, L}}{5 \, Deltax} + \frac{20 \, D_0 \, \overline{\Phi}_0}{Deltax}$$

$$- \frac{60 \, D_0 \, \overline{\Phi}_{0, \, x, \, 1}}{Deltax} + \frac{140 \, D_0 \, \overline{\Phi}_{0, \, x, \, 2}}{Deltax}$$

$$j_{3, \, out, \, x, \, R} - j_{3, \, inc, \, x, \, R} = \frac{60 \, D_2 \, \overline{\phi}_{2, \, x, \, 1}}{Deltax} + \frac{140 \, D_2 \, \overline{\phi}_{2, \, x, \, 2}}{Deltax} - \frac{128 \, D_2 \, j_{1, \, out, \, x, \, R}}{25 \, Deltax} - \frac{128 \, D_2 \, j_{1, \, inc, \, x, \, R}}{25 \, Deltax}$$

$$- \frac{512 \, D_2 \, j_{3, \, out, \, x, \, R}}{15 \, Deltax} - \frac{512 \, D_2 \, j_{3, \, inc, \, x, \, R}}{15 \, Deltax} - \frac{32 \, D_2 \, j_{1, \, out, \, x, \, L}}{25 \, Deltax} - \frac{32 \, D_2 \, j_{1, \, inc, \, x, \, L}}{25 \, Deltax}$$

$$- \frac{128 \, D_2 \, j_{3, \, out, \, x, \, L}}{15 \, Deltax} - \frac{128 \, D_2 \, j_{3, \, inc, \, x, \, L}}{15 \, Deltax} + \frac{20 \, D_2 \, \overline{\phi}_2}{Deltax}$$

$$j_{3, \, out, \, x, \, L} - j_{3, \, inc, \, x, \, L} = -\frac{32 \, D_2 \, j_{1, \, out, \, x, \, R}}{25 \, Deltax} - \frac{32 \, D_2 \, j_{1, \, inc, \, x, \, R}}{25 \, Deltax} - \frac{128 \, D_2 \, j_{3, \, out, \, x, \, R}}{15 \, Deltax} - \frac{128 \, D_2 \, j_{3, \, inc, \, x, \, R}}{15 \, Deltax}$$

$$- \frac{128 \, D_2 \, j_{1, \, out, \, x, \, L}}{25 \, Deltax} - \frac{128 \, D_2 \, j_{1, \, inc, \, x, \, L}}{25 \, Deltax} - \frac{512 \, D_2 \, j_{3, \, out, \, x, \, L}}{15 \, Deltax} - \frac{512 \, D_2 \, j_{3, \, inc, \, x, \, L}}{15 \, Deltax} + \frac{20 \, D_2 \, \overline{\phi}_2}{Deltax}$$

$$- \frac{60 \, D_2 \, \overline{\phi}_{2, \, x, \, 1}}{Deltax} + \frac{140 \, D_2 \, \overline{\phi}_{2, \, x, \, 2}}{Deltax}$$

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

$$- \frac{j_{1, \, out, \, y, \, R}}{\Sigma_{rem, \, 0} \, Deltay} + \frac{j_{1, \, inc, \, y, \, R}}{\Sigma_{rem, \, 0} \, Deltay} - \frac{j_{1, \, out, \, y, \, L}}{\Sigma_{rem, \, 0} \, Deltay} + \frac{j_{1, \, inc, \, y, \, L}}{\Sigma_{rem, \, 0} \, Deltay} - \frac{j_{1, \, out, \, z, \, R}}{\Sigma_{rem, \, 0} \, Deltaz}$$

$$+ \frac{j_{1, \, inc, \, z, \, R}}{\Sigma_{rem, \, 0} \, Deltaz} - \frac{j_{1, \, out, \, z, \, L}}{\Sigma_{rem, \, 0} \, Deltaz} + \frac{j_{1, \, inc, \, z, \, L}}{\Sigma_{rem, \, 0} \, Deltaz}$$

$$\overline{\Phi}[0, \, x, \, 1] = -\frac{8 \, D_0 \, j_{3, \, out, \, x, \, R}}{5 \, \Sigma_{rem, \, 0} \, Deltax^2} + \frac{8 \, D_0 \, j_{3, \, out, \, x, \, L}}{5 \, \Sigma_{rem, \, 0} \, Deltax^2} - \frac{8 \, D_0 \, j_{3, \, inc, \, x, \, R}}{5 \, \Sigma_{rem, \, 0} \, Deltax^2} + \frac{8 \, D_0 \, j_{3, \, inc, \, x, \, L}}{5 \, \Sigma_{rem, \, 0} \, Deltax^2}$$

$$- \frac{\left(\dfrac{1}{2 \, Deltax} + \dfrac{56 \, D_0}{25 \, Deltax^2} \right) j_{1, \, out, \, x, \, R}}{\Sigma_{rem, \, 0}} - \frac{\left(-\dfrac{1}{2 \, Deltax} - \dfrac{56 \, D_0}{25 \, Deltax^2} \right) j_{1, \, out, \, x, \, L}}{\Sigma_{rem, \, 0}}$$

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

$$- \frac{L_{1,\,xz,\,1}}{\Sigma_{rem,\,0}\,Deltaz} - \frac{L_{1,\,xy,\,1}}{\Sigma_{rem,\,0}\,Deltay} + \frac{S_{0,\,x,\,1}}{\Sigma_{rem,\,0}}$$

$$\bar{\Phi}[0,\,x,\,2] = - \frac{24\,D_0\,j_{3,\,out,\,x,\,L}}{5\,\Sigma_{rem,\,0}\,Deltax^2} - \frac{24\,D_0\,j_{3,\,inc,\,x,\,R}}{5\,\Sigma_{rem,\,0}\,Deltax^2} - \frac{24\,D_0\,j_{3,\,inc,\,x,\,L}}{5\,\Sigma_{rem,\,0}\,Deltax^2}$$

$$- \frac{\left(\frac{1}{2\,Deltax} + \frac{168\,D_0}{25\,Deltax^2}\right) j_{1,\,out,\,x,\,R}}{\Sigma_{rem,\,0}} - \frac{\left(\frac{1}{2\,Deltax} + \frac{168\,D_0}{25\,Deltax^2}\right) j_{1,\,out,\,x,\,L}}{\Sigma_{rem,\,0}}$$

$$- \frac{\left(-\frac{1}{2\,Deltax} + \frac{168\,D_0}{25\,Deltax^2}\right) j_{1,\,inc,\,x,\,R}}{\Sigma_{rem,\,0}} - \frac{\left(-\frac{1}{2\,Deltax} + \frac{168\,D_0}{25\,Deltax^2}\right) j_{1,\,inc,\,x,\,L}}{\Sigma_{rem,\,0}} + 2\,\bar{\phi}_{2,\,x,\,2}$$

$$+ \frac{6\,D_0\,\bar{\Phi}_0}{\Sigma_{rem,\,0}\,Deltax^2} + \frac{S_{0,\,x,\,2}}{\Sigma_{rem,\,0}} - \frac{L_{1,\,xz,\,2}}{\Sigma_{rem,\,0}\,Deltaz} - \frac{L_{1,\,xy,\,2}}{\Sigma_{rem,\,0}\,Deltay} - \frac{24\,D_0\,j_{3,\,out,\,x,\,R}}{5\,\Sigma_{rem,\,0}\,Deltax^2}$$

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

$$- \frac{5\,j_{3,\,inc,\,x,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} + \frac{5\,j_{3,\,out,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} - \frac{5\,j_{3,\,inc,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay}$$

$$+ \frac{5\,j_{3,\,out,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} - \frac{5\,j_{3,\,inc,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} + \frac{5\,j_{3,\,out,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz}$$

$$- \frac{5\,j_{3,\,inc,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz} + \frac{5\,j_{3,\,out,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz} - \frac{5\,j_{3,\,inc,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz}$$

$$+ \frac{2\,j_{1,\,out,\,x,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} - \frac{2\,j_{1,\,inc,\,x,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} + \frac{2\,j_{1,\,out,\,x,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax}$$

$$- \frac{2\,j_{1,\,inc,\,x,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltax} + \frac{2\,j_{1,\,out,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} - \frac{2\,j_{1,\,inc,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay}$$

$$+ \frac{2\,j_{1,\,out,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} - \frac{2\,j_{1,\,inc,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltay} + \frac{2\,j_{1,\,out,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz}$$

$$- \frac{2\,j_{1,\,inc,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz} + \frac{2\,j_{1,\,out,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz} - \frac{2\,j_{1,\,inc,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0}\right) Deltaz}$$

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

$$- \frac{\left(-\dfrac{1}{2\,Deltax} + \dfrac{32\,D_2}{15\,Deltax^2} \right) j_{3,\,inc,\,x,\,R}}{\alpha} - \frac{\left(\dfrac{1}{2\,Deltax} - \dfrac{32\,D_2}{15\,Deltax^2} \right) j_{3,\,inc,\,x,\,L}}{\alpha}$$

$$- \frac{8\,D_2\,j_{1,\,out,\,x,\,R}}{25\,\alpha\,Deltax^2} + \frac{8\,D_2\,j_{1,\,out,\,x,\,L}}{25\,\alpha\,Deltax^2} - \frac{8\,D_2\,j_{1,\,inc,\,x,\,R}}{25\,\alpha\,Deltax^2} + \frac{8\,D_2\,j_{1,\,inc,\,x,\,L}}{25\,\alpha\,Deltax^2} + \frac{2\,\Sigma_{rem,\,0}\,\overline{\Phi}_{0,\,x,\,1}}{5\,\alpha}$$

$$- \frac{2\,S_{0,\,x,\,1}}{5\,\alpha} - \frac{L_{3,\,xz,\,1}}{\alpha\,Deltaz} - \frac{L_{3,\,xy,\,1}}{\alpha\,Deltay}$$

$$\overline{\phi}\,[2,\,x,\,2] = - \frac{\left(\dfrac{1}{2\,Deltax} + \dfrac{32\,D_2}{5\,Deltax^2} \right) j_{3,\,out,\,x,\,R}}{\alpha} - \frac{\left(\dfrac{1}{2\,Deltax} + \dfrac{32\,D_2}{5\,Deltax^2} \right) j_{3,\,out,\,x,\,L}}{\alpha}$$

$$- \frac{\left(-\dfrac{1}{2\,Deltax} + \dfrac{32\,D_2}{5\,Deltax^2} \right) j_{3,\,inc,\,x,\,R}}{\alpha} - \frac{\left(-\dfrac{1}{2\,Deltax} + \dfrac{32\,D_2}{5\,Deltax^2} \right) j_{3,\,inc,\,x,\,L}}{\alpha}$$

$$- \frac{24\,D_2\,j_{1,\,out,\,x,\,R}}{25\,\alpha\,Deltax^2} - \frac{24\,D_2\,j_{1,\,out,\,x,\,L}}{25\,\alpha\,Deltax^2} - \frac{24\,D_2\,j_{1,\,inc,\,x,\,R}}{25\,\alpha\,Deltax^2} - \frac{24\,D_2\,j_{1,\,inc,\,x,\,L}}{25\,\alpha\,Deltax^2} + \frac{6\,D_2\,\overline{\phi}_2}{\alpha\,Deltax^2}$$

$$+ \frac{2\,\Sigma_{rem,\,0}\,\overline{\Phi}_{0,\,x,\,2}}{5\,\alpha} - \frac{2\,S_{0,\,x,\,2}}{5\,\alpha} - \frac{L_{3,\,xz,\,2}}{\alpha\,Deltaz} - \frac{L_{3,\,xy,\,2}}{\alpha\,Deltay}$$