$$\phi_{2,\,x,\,R} = \frac{\left(\frac{112\,Deltax^2\,\Sigma_t^2}{15} + 1328\right) jh_{3,\,out,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2} + \frac{1482\,\phi_{2,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2} + \frac{498\,\phi_{2,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2} + \frac{16\,jh_{3,\,out,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2}$$
$$+ \frac{\left(\frac{112\,Deltax^2\,\Sigma_t^2}{15} + 1328\right) jh_{3,\,inc,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2} + \frac{16\,jh_{3,\,inc,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2}$$
$$+ \frac{\left(-\frac{112\,Deltax^2\,\Sigma_t^2}{15} + 1328\right) j_{1,\,out,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2} + \frac{16\,j_{1,\,out,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2}$$
$$+ \frac{\left(-\frac{112\,Deltax^2\,\Sigma_t^2}{15} + 1328\right) j_{1,\,inc,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2} + \frac{16\,j_{1,\,inc,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2} - \frac{972\,\bar{\phi}_2}{7\,Deltax^2\,\Sigma_t^2} - \frac{1296\,\bar{\phi}_{2,\,x,\,2}}{Deltax^2\,\Sigma_t^2}$$
$$- \frac{1944\,\bar{\phi}_{2,\,x,\,1}}{7\,Deltax^2\,\Sigma_t^2} - \frac{72\,\bar{\Phi}_0}{Deltax^2\,\Sigma_t^2} - \frac{672\,\bar{\Phi}_{0,\,x,\,2}}{Deltax^2\,\Sigma_t^2} - \frac{144\,\bar{\Phi}_{0,\,x,\,1}}{Deltax^2\,\Sigma_t^2}$$

$$\phi_{2,\,x,\,L} = \frac{498\,\phi_{2,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2} + \frac{1482\,\phi_{2,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2} + \frac{16\,jh_{3,\,out,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2} + \frac{\left(\frac{112\,Deltax^2\,\Sigma_t^2}{15} + 1328\right) jh_{3,\,out,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2}$$
$$+ \frac{\left(\frac{112\,Deltax^2\,\Sigma_t^2}{15} + 1328\right) jh_{3,\,inc,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2} + \frac{16\,j_{1,\,out,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2}$$
$$+ \frac{\left(-\frac{112\,Deltax^2\,\Sigma_t^2}{15} + 1328\right) j_{1,\,out,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2} + \frac{16\,j_{1,\,inc,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2}$$
$$+ \frac{\left(-\frac{112\,Deltax^2\,\Sigma_t^2}{15} + 1328\right) j_{1,\,inc,\,x,\,L}}{7\,Deltax^2\,\Sigma_t^2} - \frac{972\,\bar{\phi}_2}{7\,Deltax^2\,\Sigma_t^2} - \frac{1296\,\bar{\phi}_{2,\,x,\,2}}{Deltax^2\,\Sigma_t^2} + \frac{1944\,\bar{\phi}_{2,\,x,\,1}}{7\,Deltax^2\,\Sigma_t^2}$$
$$- \frac{72\,\bar{\Phi}_0}{Deltax^2\,\Sigma_t^2} - \frac{672\,\bar{\Phi}_{0,\,x,\,2}}{Deltax^2\,\Sigma_t^2} + \frac{144\,\bar{\Phi}_{0,\,x,\,1}}{Deltax^2\,\Sigma_t^2} + \frac{16\,jh_{3,\,inc,\,x,\,R}}{7\,Deltax^2\,\Sigma_t^2}$$

$$jh_{3,\,out,\,x,\,R} - jh_{3,\,inc,\,x,\,R} =$$
$$- \frac{9\left(-4410\,Deltax^2\,\Sigma_t^2 + 93400\right)\phi_{2,\,x,\,R}}{4900\,Deltax^3\,\Sigma_t^3} - \frac{9\left(210\,Deltax^2\,\Sigma_t^2 + 60600\right)\phi_{2,\,x,\,L}}{4900\,Deltax^3\,\Sigma_t^3}$$

$$-\frac{9\left(-2800\,Deltax^2\,\Sigma_t^2+\frac{222400}{3}\right)jh_{3,\,out,\,x,\,R}}{4900\,Deltax^3\,\Sigma_t^3}-\frac{9\left(2800\,Deltax^2\,\Sigma_t^2+30400\right)jh_{3,\,out,\,x,\,L}}{4900\,Deltax^3\,\Sigma_t^3}$$
$$-\frac{9\left(-2800\,Deltax^2\,\Sigma_t^2+\frac{222400}{3}\right)jh_{3,\,inc,\,x,\,R}}{4900\,Deltax^3\,\Sigma_t^3}-\frac{9\left(2800\,Deltax^2\,\Sigma_t^2+30400\right)jh_{3,\,inc,\,x,\,L}}{4900\,Deltax^3\,\Sigma_t^3}$$
$$-\frac{9\left(2800\,Deltax^2\,\Sigma_t^2+30400\right)j_{1,\,out,\,x,\,L}}{4900\,Deltax^3\,\Sigma_t^3}+\left(-\frac{9\left(-2800\,Deltax^2\,\Sigma_t^2+\frac{222400}{3}\right)}{4900\,Deltax^3\,\Sigma_t^3}\right.$$
$$\left.-\frac{2}{5\,\Sigma_t}\right)j_{1,\,out,\,x,\,R}+\left(-\frac{9\left(-2800\,Deltax^2\,\Sigma_t^2+\frac{222400}{3}\right)}{4900\,Deltax^3\,\Sigma_t^3}+\frac{2}{5\,\Sigma_t}\right)j_{1,\,inc,\,x,\,R}$$
$$-\frac{9\left(2800\,Deltax^2\,\Sigma_t^2+30400\right)j_{1,\,inc,\,x,\,L}}{4900\,Deltax^3\,\Sigma_t^3}-\frac{9\left(4200\,Deltax^2\,\Sigma_t^2-75600\right)\bar{\phi}_2}{4900\,Deltax^3\,\Sigma_t^3}$$
$$-\frac{9\left(29400\,Deltax^2\,\Sigma_t^2-756000\right)\bar{\phi}_{2,\,x,\,2}}{4900\,Deltax^3\,\Sigma_t^3}-\frac{9\left(12600\,Deltax^2\,\Sigma_t^2-64800\right)\bar{\phi}_{2,\,x,\,1}}{4900\,Deltax^3\,\Sigma_t^3}$$
$$+\frac{72\,\bar{\Phi}_0}{Deltax^3\,\Sigma_t^3}+\frac{720\,\bar{\Phi}_{0,\,x,\,2}}{Deltax^3\,\Sigma_t^3}+\frac{432\,\bar{\Phi}_{0,\,x,\,1}}{7\,Deltax^3\,\Sigma_t^3}$$

$$jh_{3,\,out,\,x,\,L}-jh_{3,\,inc,\,x,\,L}=-\frac{9\left(-210\,Deltax^2\,\Sigma_t^2-60600\right)\phi_{2,\,x,\,R}}{4900\,Deltax^3\,\Sigma_t^3}$$
$$-\frac{9\left(4410\,Deltax^2\,\Sigma_t^2-93400\right)\phi_{2,\,x,\,L}}{4900\,Deltax^3\,\Sigma_t^3}-\frac{9\left(-2800\,Deltax^2\,\Sigma_t^2-30400\right)jh_{3,\,out,\,x,\,R}}{4900\,Deltax^3\,\Sigma_t^3}$$
$$-\frac{9\left(2800\,Deltax^2\,\Sigma_t^2-\frac{222400}{3}\right)jh_{3,\,out,\,x,\,L}}{4900\,Deltax^3\,\Sigma_t^3}-\frac{9\left(-2800\,Deltax^2\,\Sigma_t^2-30400\right)jh_{3,\,inc,\,x,\,R}}{4900\,Deltax^3\,\Sigma_t^3}$$
$$-\frac{9\left(2800\,Deltax^2\,\Sigma_t^2-\frac{222400}{3}\right)jh_{3,\,inc,\,x,\,L}}{4900\,Deltax^3\,\Sigma_t^3}-\frac{9\left(-2800\,Deltax^2\,\Sigma_t^2-30400\right)j_{1,\,out,\,x,\,R}}{4900\,Deltax^3\,\Sigma_t^3}+\left(\right.$$
$$\left.-\frac{9\left(2800\,Deltax^2\,\Sigma_t^2-\frac{222400}{3}\right)}{4900\,Deltax^3\,\Sigma_t^3}-\frac{2}{5\,\Sigma_t}\right)j_{1,\,out,\,x,\,L}$$
$$-\frac{9\left(-2800\,Deltax^2\,\Sigma_t^2-30400\right)j_{1,\,inc,\,x,\,R}}{4900\,Deltax^3\,\Sigma_t^3}+\left(-\frac{9\left(2800\,Deltax^2\,\Sigma_t^2-\frac{222400}{3}\right)}{4900\,Deltax^3\,\Sigma_t^3}\right.$$

$$+\frac{2}{5\,\Sigma_t}\Bigg)j_{1,\,inc,\,x,\,L}-\frac{9\left(-4200\,Deltax^2\,\Sigma_t^2+75600\right)\bar{\phi}_2}{4900\,Deltax^3\,\Sigma_t^3}$$

$$-\frac{9\left(-29400\,Deltax^2\,\Sigma_t^2+756000\right)\bar{\phi}_{2,\,x,\,2}}{4900\,Deltax^3\,\Sigma_t^3}-\frac{9\left(12600\,Deltax^2\,\Sigma_t^2-64800\right)\bar{\phi}_{2,\,x,\,1}}{4900\,Deltax^3\,\Sigma_t^3}$$

$$-\frac{72\,\bar{\Phi}_0}{Deltax^3\,\Sigma_t^3}-\frac{720\,\bar{\Phi}_{0,\,x,\,2}}{Deltax^3\,\Sigma_t^3}+\frac{432\,\bar{\Phi}_{0,\,x,\,1}}{7\,Deltax^3\,\Sigma_t^3}$$

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

$$-\frac{128\,D_0 jh_{3,\,inc,\,x,\,R}}{3\,Deltax}-\frac{32\,D_0\,\phi_{2,\,x,\,R}}{Deltax}-\frac{32\,D_0 j_{1,\,out,\,x,\,L}}{3\,Deltax}-\frac{32\,D_0 j_{1,\,inc,\,x,\,L}}{3\,Deltax}-\frac{32\,D_0 jh_{3,\,out,\,x,\,L}}{3\,Deltax}$$

$$-\frac{32\,D_0 jh_{3,\,inc,\,x,\,L}}{3\,Deltax}-\frac{8\,D_0\,\phi_{2,\,x,\,L}}{Deltax}+\frac{20\,D_0\,\bar{\Phi}_0}{Deltax}+\frac{60\,D_0\,\bar{\Phi}_{0,\,x,\,1}}{Deltax}+\frac{140\,D_0\,\bar{\Phi}_{0,\,x,\,2}}{Deltax}$$

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

$$-\frac{8\,D_0\,\phi_{2,\,x,\,R}}{Deltax}-\frac{128\,D_0 j_{1,\,out,\,x,\,L}}{3\,Deltax}-\frac{128\,D_0 j_{1,\,inc,\,x,\,L}}{3\,Deltax}-\frac{128\,D_0 jh_{3,\,out,\,x,\,L}}{3\,Deltax}$$

$$-\frac{128\,D_0 jh_{3,\,inc,\,x,\,L}}{3\,Deltax}-\frac{32\,D_0\,\phi_{2,\,x,\,L}}{Deltax}+\frac{20\,D_0\,\bar{\Phi}_0}{Deltax}-\frac{60\,D_0\,\bar{\Phi}_{0,\,x,\,1}}{Deltax}+\frac{140\,D_0\,\bar{\Phi}_{0,\,x,\,2}}{Deltax}$$

$$J_{3,\,x,\,R}=-\frac{16\,D_2\,\phi_{2,\,x,\,R}}{Deltax}-\frac{4\,D_2\,\phi_{2,\,x,\,L}}{Deltax}+\frac{20\,D_2\,\bar{\phi}_2}{Deltax}+\frac{60\,D_2\,\bar{\phi}_{2,\,x,\,1}}{Deltax}+\frac{140\,D_2\,\bar{\phi}_{2,\,x,\,2}}{Deltax}$$

$$J_{3,\,x,\,L}=-\frac{4\,D_2\,\phi_{2,\,x,\,R}}{Deltax}-\frac{16\,D_2\,\phi_{2,\,x,\,L}}{Deltax}+\frac{20\,D_2\,\bar{\phi}_2}{Deltax}-\frac{60\,D_2\,\bar{\phi}_{2,\,x,\,1}}{Deltax}+\frac{140\,D_2\,\bar{\phi}_{2,\,x,\,2}}{Deltax}$$

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

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

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

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

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

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

$$\bar{\Phi}_0 = \left(\frac{4}{Deltaz \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} - \frac{1}{Deltaz\,\Sigma_{rem,\,0}} \right) j_{1,\,out,\,z,\,R} + \left(\frac{4}{Deltaz \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} - \frac{1}{Deltaz\,\Sigma_{rem,\,0}} \right) j_{1,\,out,\,z,\,L} + \left(\frac{4}{Deltay \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} - \frac{1}{Deltay\,\Sigma_{rem,\,0}} \right) j_{1,\,out,\,y,\,R} + \left(\frac{4}{Deltay \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} - \frac{1}{Deltay\,\Sigma_{rem,\,0}} \right) j_{1,\,out,\,y,\,L} + \left(\frac{4}{Deltax \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} - \frac{1}{Deltax\,\Sigma_{rem,\,0}} \right) j_{1,\,out,\,x,\,R} + \left(\frac{4}{Deltax \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} - \frac{1}{Deltax\,\Sigma_{rem,\,0}} \right) j_{1,\,out,\,x,\,L} + \left(-\frac{4}{Deltaz \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} + \frac{1}{Deltaz\,\Sigma_{rem,\,0}} \right) j_{1,\,inc,\,z,\,R} + \left(-\frac{4}{Deltaz \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} + \frac{1}{Deltaz\,\Sigma_{rem,\,0}} \right) j_{1,\,inc,\,z,\,L} + \left(-\frac{4}{Deltay \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} + \frac{1}{Deltay\,\Sigma_{rem,\,0}} \right) j_{1,\,inc,\,y,\,R} + \left(-\frac{4}{Deltay \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} + \frac{1}{Deltay\,\Sigma_{rem,\,0}} \right) j_{1,\,inc,\,y,\,L} + \left(-\frac{4}{Deltax \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} + \frac{1}{Deltax\,\Sigma_{rem,\,0}} \right) j_{1,\,inc,\,x,\,R} + \left(-\frac{4}{Deltax \left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right)} + \frac{1}{Deltax\,\Sigma_{rem,\,0}} \right) j_{1,\,inc,\,x,\,L} + \frac{S_0}{\Sigma_{rem,\,0}} + \frac{10\,J_{3,\,z,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right) Deltaz} + \frac{10\,J_{3,\,z,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right) Deltaz} + \frac{10\,J_{3,\,y,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right) Deltay} + \frac{10\,J_{3,\,y,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right) Deltay} + \frac{10\,J_{3,\,x,\,R}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right) Deltax} + \frac{10\,J_{3,\,x,\,L}}{\left(-5\,\alpha + 4\,\Sigma_{rem,\,0} \right) Deltax}$$