publicdoublefangweijiao(double[] sdr, double[] cr)

{

doublesum = 0;

for(inti= 1; i< sdr.Length; i++)

{

cr[i] = cr[i-1] + sdr[i] -Math.PI;

if(cr[i] >= Math.PI\* 2)

cr[i] -= Math.PI\* 2;

elseif(cr[i] < 0.0)

cr[i] += Math.PI\* 2;

sum += sdr[i];

}

returnsum;

}

privatevoidbutton1\_Click(objectsender, EventArgse)

{

string[] sd= newstring[dataGridView1.RowCount-5];

double[] sdr= newdouble[sd.Length];

double[] cr= newdouble[sd.Length];

doublesum = 0;

cr[0]=dmstorad(Convert.ToString(dataGridView1.Rows[0].Cells[4].Value));

double acd = dmstorad(Convert.ToString(dataGridView1.Rows[dataGridView1.RowCount-6].Cells[4].Value));

for(inti= 1; i< sd.Length; i++)

{

sd[i] =

Convert.ToString(dataGridView1.Rows[i].Cells[1].Value);sdr[i] = dmstorad(sd[i]);

}

sum = fangweijiao(sdr, cr); dataGridView1.Rows[dataGridView1.RowCount-4].Cells[1].Value = radtodms(sum);

doublefd, fdx;

fd= cr[cr.Length-1] -acd;

fdx= 60 \* Math.Sqrt(sd.Length-1); dataGridView1.Rows[dataGridView1.RowCount -3].Cells[1].Value =

Convert.ToString(Math.Round(fd\* 180 / Math.PI\* 3600, 2))+"″";

dataGridView1.Rows[dataGridView1.RowCount-2].Cells[1].Value =Convert.ToString(Math.Round(fdx, 2))+"″";

if(Math.Abs(fd\* 180 / Math.PI\* 3600) > fdx) MessageBox.Show("角度闭合差超限！");

else

{

doublevd= -fd/ (sd.Length-1);

for(inti = 1; i < sdr.Length; i++)

{

sdr[i] += vd; sumvd+= vd;

dataGridView1.Rows[i].Cells[2].Value =

Convert.ToString(Math.Round(vd\* 180 / Math.PI\*

3600,2))+"″";

dataGridView1.Rows[i].Cells[3].Value=radtodms(sdr[i]

);

}

if(Math.Round(sumvd, 8) != Math.Round(-fd, 8)) MessageBox.Show("角度改正数分配有误！");

else

dataGridView1.Rows[dataGridView1.RowCount-4].Cells

[2].Value =

Convert.ToString(Math.Round(sumvd\*180/Math.PI\*

3600, 2)) + "″";

sum = fangweijiao(sdr, cr);//推算改正后的坐标方位角

if(Math.Round(cr[cr.Length-1], 8) != Math.Round(acd, 8))

MessageBox.Show("坐标方位角推算有误！");

else

{

dataGridView1.Rows[dataGridView1.RowCount-4].C

ells[3].Value =radtodms(sum);

for(inti=1;i<cr.Length-1;i++)

dataGridView1.Rows[i].Cells[4].Value radtodms(cr[i]);

}

}