MOONS Multigrid R/P for CC data

# Restriction

The restriction operator is defined by taking the average of the two cells, and interpolating the result to the new cell center. Let be the location of CC data. The average is computed with

And linearly interpolating this, we have

Solving for the result, we have

Or

Finally

Where

# Prolongation

The prolongation operator is defined by linearly interpolating the coarse grid to the fine grid CC, and then taking half of the value