!\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

! 補正境界条件

!\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

!----------------------------------------------------------------------------

! 電界の境界条件

!----------------------------------------------------------------------------

subroutine electric\_boundary\_condition

use fdtd

implicit none

integer :: i,j,k

! 下の壁

k=1

do i=1,nx-1

do j=1,ny

ex(i,j,k)=0.0d0

end do

end do

do i=1,nx

do j=1,ny-1

ey(i,j,k)=0.0d0

end do

end do

! 上の壁

k=nz-1

do i=1,nx-1

do j=1,ny

ex(i,j,k)=0.0d0

end do

end do

do i=1,nx

do j=1,ny-1

ey(i,j,k)=0.0d0

end do

end do

return

end subroutine

!----------------------------------------------------------------------------

! 磁界の境界条件

!----------------------------------------------------------------------------

subroutine magnetic\_boundary\_condition

use fdtd

implicit none

integer :: i,j,k

! 右の壁

i=nx-1

do j=1,ny

do k=1,nz-1

hy(i,j,k)=0.0d0

end do

end do

do j=1,ny-1

do k=1,nz

hz(i,j,k)=0.0d0

end do

end do

! 左の壁

i=1

do j=1,ny

do k=1,nz-1

hy(i,j,k)=0.0d0

end do

end do

do j=1,ny-1

do k=1,nz

hz(i,j,k)=0.0d0

end do

end do

return

end subroutine