

1 stepped pressure equilibrium code : bf10aa

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1.0.1 purpose and overview

1. Returns the magnetic field field line equations in external domain (free-boundary).
2. The transformation from cylindrical (R, ϕ, Z) to Cartesian (x, y, z) is described by $x = R \cos \phi$, $y = R \sin \phi$ and $z = z$.
3. The vector transformation from Cartesian to cylindrical (as required by the field line integration routine **pp10aa**) is given:

$$B^x \nabla x + B^y \nabla y + B^z \nabla z = B^x (\cos \phi \nabla R - \sin \phi R \nabla \phi) + B^y (\sin \phi \nabla R + \cos \phi R \nabla \phi) + B^z \nabla z. \quad (1)$$

bf10aa.h last modified on 2012-09-19 ;
