packab

Packs and unpacks Beltrami field solution vector.

[called by: dforce, ma02aa and mp00ac.]

contents

1.1   construction of "vector" of independent degrees of freedom

1. Numerical routines for solving linear equations typically require the unknown, independent degrees of freedom to be "packed" into a vector, $\mathbf{x}$.

2. The magnetic field is defined by the independent degrees of freedom in the Chebyshev-Fourier representation of the vector potential, $A_{\theta,e,i,l}$ and $A_{\zeta,e,i,l}$; and the non-stellarator-symmetric terms if relevant, $A_{\theta,o,i,l}$ and $A_{\zeta,o,i,l}$; and the Lagrange multipliers, a_i, b_i, c_i, d_i, e_i, etc. as required to enforce the constraints:

$$\mathbf{x} \equiv \{A_{\theta,e,i,l}, A_{\zeta,e,i,l}, A_{\theta,o,i,l}, A_{\zeta,o,i,l}, a_i, b_i, c_i, d_i, e_i, f_i, g_1, h_1\}. \tag{1}$$

3. The "packing" index is assigned in preset.

packab.h last modified on -07-26 10:29:21.717;   SPEC subroutines;