

Question 8

Q: How to set the temperature dependency for anisotropic thermal conductivity?

A: To set the temperature dependency for anisotropic thermal conductivity, specify temperatures to the T column, thermal conductivity in the X direction to the lambda xx column, thermal conductivity in the Y direction to the lambda yy column, thermal conductivity in the Z direction to the lambda zz column, and 0 to the lambda yz, lambda zx, and lambda xy columns.

The local coordinate system of a material coincides with the coordinate system of an analysis space with respect to direction by default.

The direction tab in the [Edit Body Attribute] dialog box allows you to change the direction of the material.

Edit Nonlinearity Table

[Temperature-Anisotropic Thermal Conductivity] Graph

No.	T	lambda xx	lambda yy	lambda zz	lambda yz	lambda zx	lambda xy
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Unit deg W/m/deg

T:Temperature Lambda:Thermal Conductivity

Direction

Specified by

Vector Centripetal Direction (Radial) Polar Anisotropy

Euler Angle Circumferential Direction Habach

Z Vector

X

Y

Z

Enter two vectors and specify 3 directions

X Vector

XYZ is a coordinate system of the xyz is a coordinate system of mat

