

MiscCylindricalCoord

Inherits From: MiscMathCoord : MiscCoord : Object
Declared In: misckit/miscgiskit/MiscCylindricalCoord.h

Class Description

A MiscCylindricalCoord object holds a set of cylindrical coordinate points, ie cylinder radius, theta (angle from zero meridian at x axis towards y axis), and z hieght values. Theta is stored internally as radians at all times, but may be loaded or retrieved in degrees if desired.

Method Types

Accessing Coord values	- radius
	- thetaRadians
	- thetaDegrees

- zCoord
- coordRadius:thetaDegrees:z:
- coordRadius:thetaRadians:z:
- setCoordRadius:thetaDegrees:z:
- setCoordRadius:thetaRadians:z:

Instance Methods

coordRadius:thetaDegrees:z:

- **coordRadius:**(double*)*rValue* **thetaDegrees:**(double*)*thetaValue* **z:**(double*)*zValue*

Gets the r, θ (in decimal degrees) and z values of the point at the current index. Returns **self**.

See also: - **coordRadius:thetaRadians:z:**

coordRadius:thetaRadians:z:

- **coordRadius:**(double*)*rValue* **thetaRadians:**(double*)*thetaValue* **z:**(double*)*zValue*

Gets the r, θ (in radians) and z values of the point at the current index. Returns **self**.

See also: - **coordRadius:thetaDegrees:z:**

radius

- (double)**radius**

Returns the radius value of the point at the current index.

See also: - **thetaRadians**, - **thetaDegrees**, - **zCoord**

setCoordRadius:thetaDegrees:z:

- **setCoordRadius:**(double)*rValue* **thetaDegrees:**(double)*thetaValue* **z:**(double)*zValue*

Sets the r , θ (in decimal degrees) and z values of the point at the current index.

See also: - **setCoordRadius:thetaRadians:z:**

setCoordRadius:thetaRadians:z:

- **setCoordRadius:**(double)*rValue* **thetaRadians:**(double)*thetaValue* **z:**(double)*zValue*

Sets the r , θ (in radians) and z values of the point at the current index.

See also: - **setCoordRadius:thetaDegrees:z:**

thetaDegrees

- (double)**thetaDegrees**

Returns the θ value (in decimal degrees) of the point at the current index.

See also: - **radius**, - **thetaDegrees**, - **zCoord**

thetaRadians

- (double)**thetaRadians**

Returns the θ value (in radians) of the point at the current index.

See also: - **radius**, - **thetaRadians**, - **zCoord**

zCoord

- (double)**zCoord**

Returns the z value of the point at the current index.

See also: - radius, - thetaRadians, - thetaDegrees