

# 2D Field Calculator

**2D Post Processor**

File Edit View Coordinates Geometry Data Plot Options Window Help

Abs. [mm] out2

**Field Calculator::out2**

Push Pop R1Dn R1Up Exch Clear Undo

Name:  Enter

degrees  radians

Input	General	Scalar	Vector	Output
Qty	+	Vec?	Scal?	Draw
Geom	-	1/x	Matl...	Plot
Const	*	Power	Mag	Anim
Num	/	$\sqrt{\quad}$	Dot	2D Plot
Func	Neg	Trig	Cross	Value
Read...	Abs	d/d?	Divg	Eval
	Smooth	$\int$	Curl	Write...
	Domain	$\nabla$	Tangent	Export
		Normal	Append...	

Done Help

Maxwell 2D INTERNAL DEVELOPMENT VERSION (Main Branch) 8.1.29M Copyright 1984-2001 Ansoft Corporation

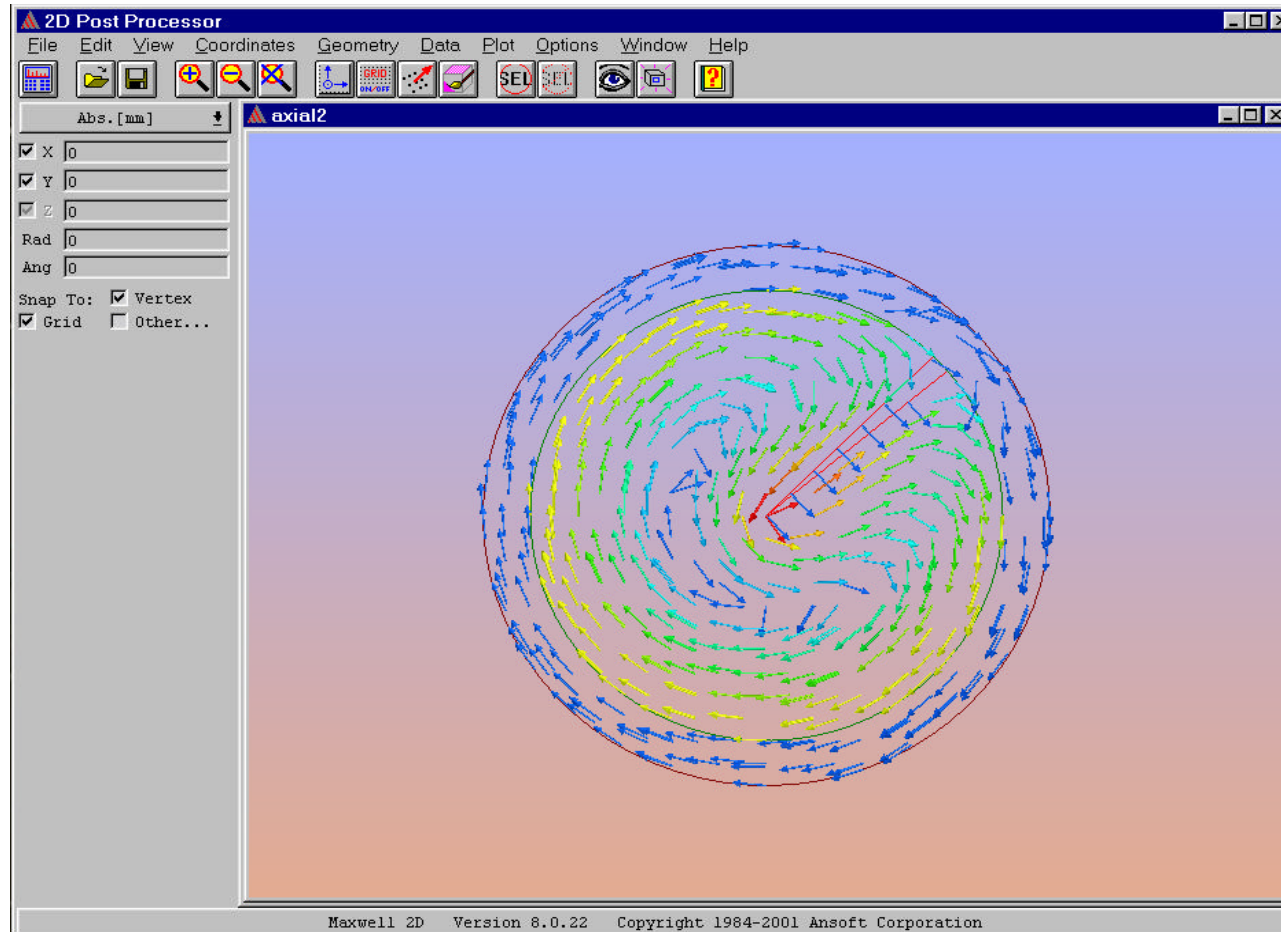
# Plot Field Menu

The screenshot displays the ANSOFT 2D Post Processor interface. The main window shows a field plot of a semi-circular structure with various colored regions (green, blue, red, white) on a light purple background. A red rectangular selection box is drawn around the plot. The 'Create New Plot' dialog box is open, showing the following options:

Plot Quantity	On Geometry	In Area
Flux Lines	Point point1	-all-
mag B	Surface -all-	
mag H	Surface AirGap	
mag J	Surface AirStator	
A Vector	Surface Band	
B Vector	Surface Magnet0	
H Vector	Surface PhA0	
J Vector	Surface PhA1	
Energy	Surface PhA2	
Coenergy	Surface PhA3	
Appenergy	Surface PhA4	
	Surface PhA5	
	Surface PhReA0	
	Surface PhReA10	
	Surface PhReA11	
	Surface PhReA7	
	Surface PhReA8	
	Surface PhReA9	

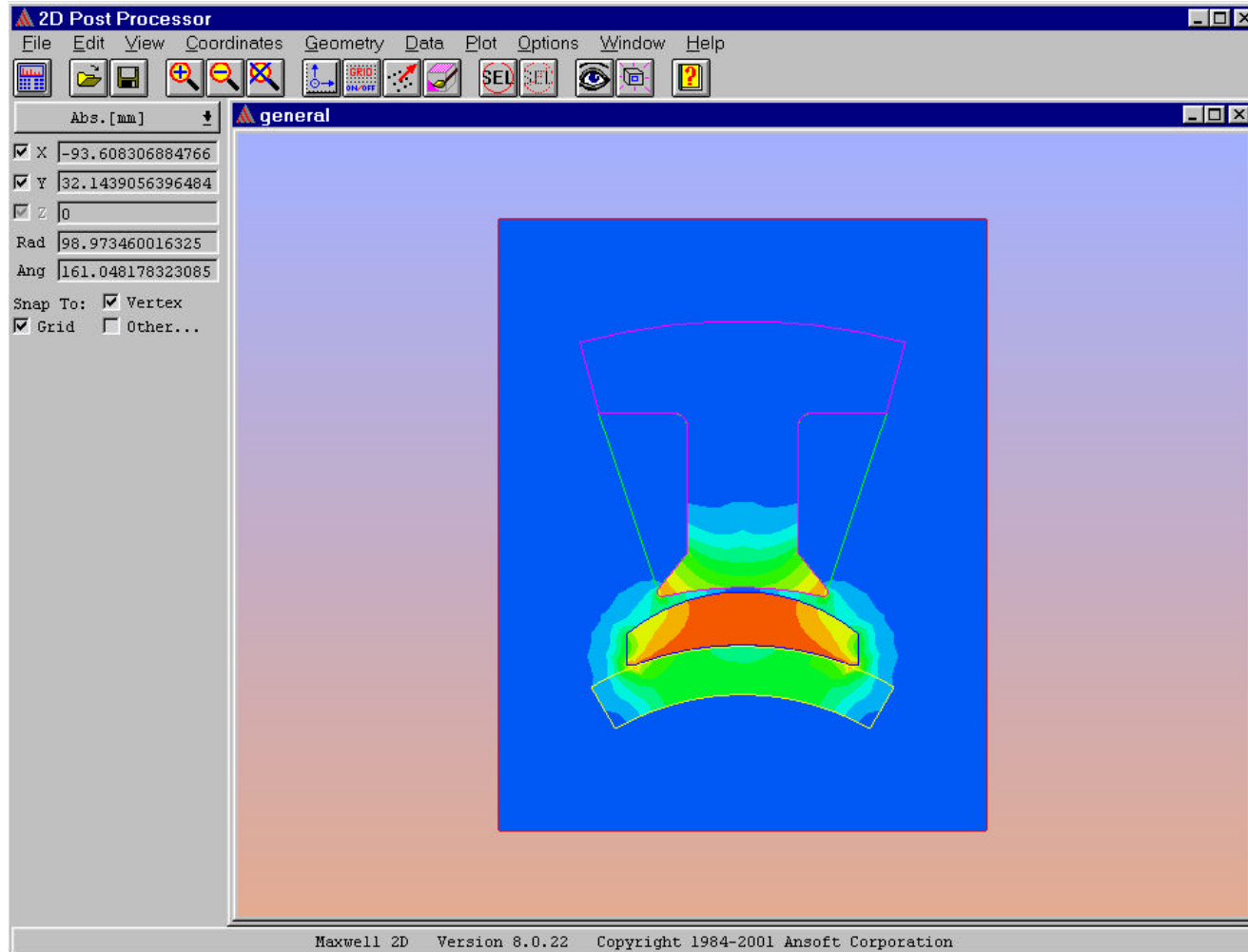
At the bottom of the dialog box, there are radio buttons for '2D Line Plot' (selected) and '3D Line Plot'. Below these are 'OK', 'Cancel', and 'Help' buttons.

# Eddy Current Vector Plot



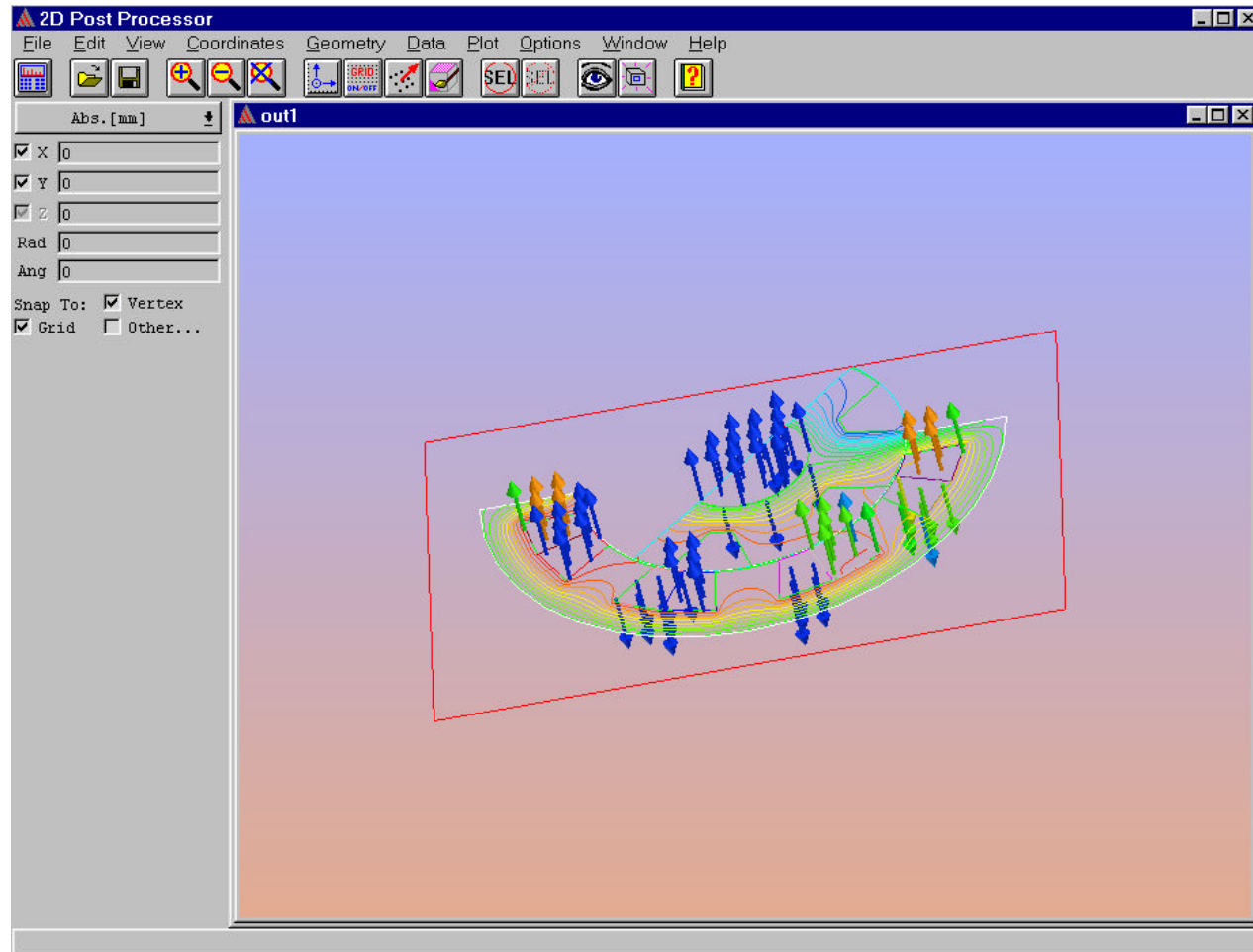
Showing eddy current vector in a cracked solenoid

# Flux Density Plot



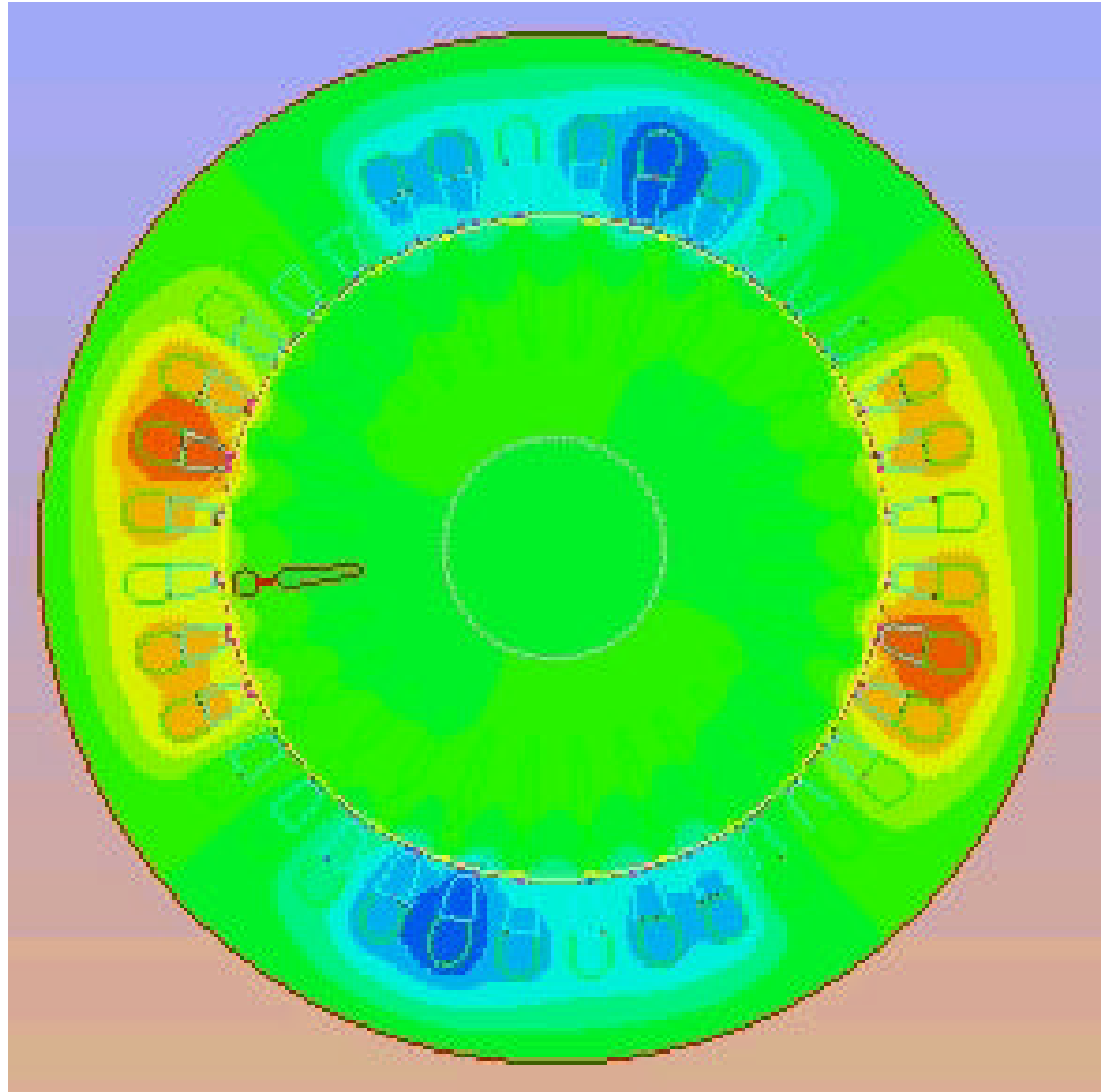
Showing flux density in one pole of PM DC motor

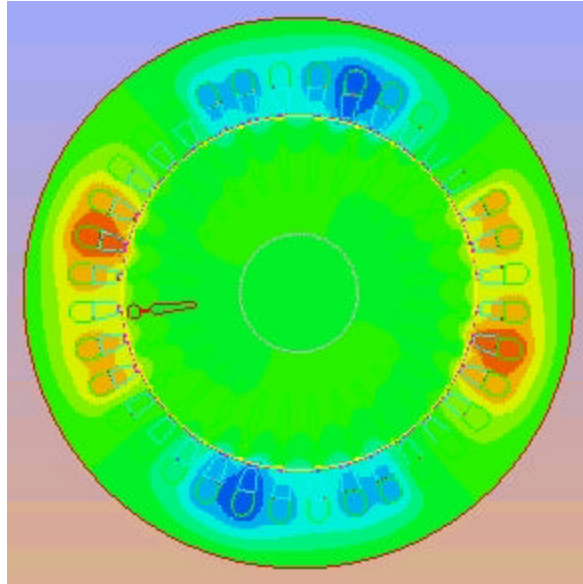
# Current Density Vector Plot



Showing current density vector and flux line in a switched reluctance motor

# Phase animation of a rotor





Click to  
play  
demo