NT		
Name		

 • ,	C1			

Find the direction of the induced current (CW or ACW) "'" = out of the page. "x" = into the page)

T 111	a the airection of the mau	ced current (CW or ACW)	= out of the page, "x"	= mto the page)
1		D		_
	B:	B:	B:	B: †
	· · · · · · · · · · · · · · · · · · ·			XXXXXXX
	· · · · · · · ·			x x x x x x x
		XXXXXX	()	x x x x x x x
		xxxxxxx		XXXXXX
	CW		↓	*****
	CW	ACW	ACW	CW
2	B increases	B decreases	The magnet moves as	The magnet moves as
		В	shown. Which way does	shown. Which way does
	B:		the current flow on the	the current flow on the
		XXXXXX	front of the coil?	front of the coil?
	. (x x/x x x x x	I	
	.() .	x x x x x x x		
		xxxxxx		SN
	CW	CW	down	down
1				
3	Current increases	Current decreases	Current in outer loop	Current in inner loop
3	Current increases	Current decreases	Current in outer loop increases	
3	Current increases	_		Current in inner loop
3	Current increases	Current decreases		Current in inner loop
3	Current increases	_		Current in inner loop
3	Current increases	_		Current in inner loop
3	Current increases	_		Current in inner loop
3	Current increases I cw	_		Current in inner loop
3		1	increases	Current in inner loop increases
	I cw Which end of the wire is +?	ACW Which end of the wire is +?	increases CW or ACW?	Current in inner loop increases CW CW CW
	I cw	ACW Which end of the wire is +? B	increases	Current in inner loop increases CW or ACW B
	I cw Which end of the wire is +?	ACW Which end of the wire is +? B X X X X X X X	increases CW or ACW?	Current in inner loop increases CW or ACW B X X X X X X X
	I cw Which end of the wire is +?	ACW Which end of the wire is +? B XXXXXXX XXXXXX	increases CW or ACW?	Current in inner loop increases CW CW or ACW B X X X X X X X X X X X X X X X
	I cw Which end of the wire is +?	ACW Which end of the wire is +? B XXXXXXX XXXXXX XXXXXX XXXXXXX	increases CW or ACW?	Current in inner loop increases CW or ACW B X X X X X X X X X X X X X X X X X X X X X X
	I cw Which end of the wire is +?	ACW Which end of the wire is +? B XXXXXXX XXXXXX	increases CW or ACW?	Current in inner loop increases CW or ACW B X X X X X X X X X X X X X X X

5. The 12.0 cm diameter loop below has 58 windings, and is pulled from the 3.10 T magnetic field in 0.0150 s. What is the average EMF, and what direction does the current flow? (136 V, CW)

В	
X X X X X X X	
x x x x x x x	
$x \times x \times x \times x$	•
XXXXXX	