

CADENUS (period not over 6)

Columnar tramp using a keyword to shift the order of the columns and at the same time to shift the starting point of each column. The latter is done by attaching a letter of the alphabet (25-letter alphabet as shown with V and W in the same cell) to each row of plaintext in the block. The first column of plaintext goes into the 2nd column of the cipher block (as determined by the key) but it begins with its 22nd letter, (Y here), since the key letter (**E** here, of **EASY**) is attached to the 22nd letter of the key column. Other columns are treated similarly. The final cipher is taken off by rows from the cipher block.

pt: A severe limitation on the usefulness of the Cadenus is that every message must be a multiple of twenty-five letters long.

CT:

**SYSTR ETOMT ATTLU SOATL EEESF
 IYHEA SDFNM SCHBH NEUVS NPMT0
 FAREN USEIE EIELT ARLME NTIEE
 TOGEV ESITF AISLT NGEEU VOWUL.**

K: EASY

<u>pt block</u>	<u>Key</u>	<u>CT block</u>
E A S Y		A E S Y
<u>2 1 3 4</u>		<u>1 2 3 4</u>
a <u>s</u> e v	A	S Y S T
e r e l	Z	R E T O
i m i <u>t</u>	Y	M T A T
a t i o	X	T L U S
n o n t	V/W	O A T L
h e u s	U	E E E S
e f u l	T	F I Y H
n e <u>s</u> s	S	E A S D
o f t h	R	F N M S
e c a d	Q	C H B H
e n u s	P	N E U V
i s t h	O	S N P M
a t e v	N	T O F A
e r y m	M	R E N U
e s s a	L	S E I E
g e m u	K	E I E L
s t b e	J	T A R L
a m u l	I	M E N T
t i p l	H	I E E T
e o f t	G	O G E V
w e n t	F	E S I T
y f i v	E	F A I S
e l e t	D	L T N G
t e r s	C	E E U V
l o n g	B	O W U L