## USING THE SLIDE RULE



THIS IS FOR HALF-PERIOD N4 associated with '1' so the crossings in HP4 are from R to L : U-U modified ( for clarity ) from SCHAAKE \& TURNER by nautile
We have completed our slide rule and we are as they say in French " comme une poule qui vient de trouver un couteau" / "like a hen that just found a knife" a bit embarrassed.

| $2 / 0$ | $6 / 2$ | $10 / 4$ | $14 / 6$ | $4 / 1$ | $8 / 3$ | $12 / 5$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $16 / 7$ | $20 / 9$ | $24 / 11$ | $28 / 13$ | $18 / 8$ | $22 / 10$ | $26 / 12$ |

$$
\mathrm{O}-\mathrm{U}-\mathrm{U}-\mathrm{O}-\mathrm{O}-\mathbf{U}-\mathbf{O}-\mathbf{U}-\mathbf{O}-\mathbf{O}-\mathbf{U}-\mathbf{U}-\mathrm{O}-\mathrm{U}-\mathrm{O}-\mathrm{U} \quad \mathrm{U}-\mathrm{O}-\mathrm{O}-\mathbf{U}-\mathbf{O}-\mathbf{U}-\mathbf{O}-\mathbf{O}-\mathbf{U}-\mathbf{U}-\mathrm{O}-\mathbb{U}
$$




This is the start position : this is for the first HP (first of the ODD HP and firts of all the $2 * \mathrm{~B}$ HP ) Easy as pie : mark it as HP $1:\{ \}$ Free Run
WOW, how intelligent and sure of us we are now.
Yes we can because we don't have anything special to get the HP 2 : ( the first of the EVEN HP )
We are fortunate that SCHAAKE \& TURNER made it so by astute thinking:
The right side star is already in alignment with $2 / 0$ second HP and Bight number 0


Now reading RIGHT TO LEFT ( remember that? ) starting at the alignment right side star vertical line with $2 / 0$ above and going leftward we read the

$$
\begin{array}{llllllllllllllllll}
4 & 9 & 0 & 5 & 10 & 1 & 6 & 11 & 2 & 7 & 12 & 3 & 8 & 13 & 4 & 9 & 0
\end{array}
$$

stopping at numbers equal or less than the second member of the 'coupled' number : here ' 0 ' it happen that above this ' 0 ' is a ' $U$ ' so HP é : $\{U\}$
Second HP has only one crossing : an Under
Now for the tricky part, almost rocket science ;-) how do we get the HP 3 ?
AH! UMH!
Why do you think this is called a slide rule with a mobile part?
because we slide the mobile part! Is that enough clarity for Readers?
O-U -U-O-O-U-O-U-O-O-U-U-O-U-O-U U-O-O-U-O-U-O-O-U-U-O-U

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Are you beginning to understand how you need to go on ?
I certainly hope so. We need to do HP 4 :
That is so EVEN so on the UPPER fixed part of the slide rule
We align the right side star with the 'coupled' numbers we need $4 / 1$

| $2 / 0$ | $6 / 2$ | $10 / 4$ | $14 / 6$ | $4 / 1$ | $8 / 3$ | $12 / 5$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $16 / 7$ | $20 / 9$ | $24 / 11$ | $28 / 13$ | $18 / 8$ | $22 / 10$ | $26 / 12$ |



Now for HP 5 : well just do it yourself : go to lower fixed part and align left side star with 5 / 1
And so on

Now a last exercise HP 22 : say
So EVEN so upper fixed par so right side star
Align right side star with $22 / 10$

$$
\begin{array}{rrrrrrr}
2 / 0 & 6 / 2 & 10 / 4 & 14 / 6 & 4 / 1 & 8 / 3 & 12 / 5 \\
16 / 7 & 20 / 9 & 24 / 11 & 28 / 13 & 18 / 8 & 22 / 10 & 26 / 12 \\
-\mathbf{O}
\end{array}
$$

So this should be HP 22: $\{\mathrm{U} 2 \mathrm{O}$ U2 O U2 O U O U2 $\}$

Now you are alone.

Bonne route

