VM006-DocII021

Vedic Mathematics, Science & Technology Teacher Course

By Dr. S. K. Kapoor

DOMAIN SPLIT SPECTRUM OF 5 STEPS

This day the course focus is upon 'Domain split spectrum of 5 steps'. It four folds aspects being taken up are as follows:

- 81. Table of numbers of dimensions and sequential synthesis values difference for a pair of constitute dimensional order
- 82. Extending count range with middle placement of gaps
- 83. Synthesis of five dimensions of same dimensional order
- 84. Domain split spectrum of five steps long range

The values being covered are to be taught as lessons numbers 81 to 84 to the students of 4-space Vedic Mathematics, Science & Technology.

LESSON-81

TABLE OF NUMBERS OF DIMENSIONS AND SEQUENTIAL SYNTHESIS VALUES DIFFERENCE FOR A PAIR OF CONSITITUTE DIMENSIONAL ORDER

1. Here below is reached at a table of numbers of dimensions of same order being synthesized as the first row, and in the second row is tabulated the difference

www.vedicganita.org/vmcourses

values of constitute dimensional order values for the same number of dimensions of synthesis.

Number of	0	1	2	3	4	5	6
dimension							
Difference	0	-1	-1	0	2	5	9
value							
Reach factor	-	-1	-	0	1/2	1	3/2
	3/2		1/2				

Number of	7	8	9	10	11	12	13
dimension							
Difference	14	20	27	35	44	54	65
value							
Reach factor	2	5/2	3	7/2	4	9/2	5

2. The above table leads us to the reach factors range as under:

Number of	0	1	2	3	4	5	6
dimension							
Difference	0	-1	-1	0	2	5	9
value							
Reach value	-	-1	-	0	1/2	1	3/2
	3/2		1/2				

Number of 7	8	9	10	11	12	13
-------------	---	---	----	----	----	----

www.vedicganita.org/vmcourses

dimension							
Difference	14	20	27	35	44	54	65
value							
Reach value	2	5/2	3	7/2	4	9/2	5

3. One may have a pause here and to take note that the numbers of dimensions sequence and parallel to it the corresponding reach factor sequence comes to be under:

Number of	0	1	2	3	4	5	6
dimension							
Difference	0	-1	-1	0	2	5	9
value							

Number of	7	8	9	10	11	12	13
dimension							
Difference	14	20	27	35	44	54	65
value							

LESSON-82 EXTENDING COUNT RANGE WITH MIDDLE PLACEMENT OF GAPS

4. The above reach factors reach is an extended range of the- counts (... -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5 ...).

www.vedicganita.org/vmcourses

- 5. The extended range comes to be (-7/2, -3, -5/2, -2, -3/2, -1, -1/2, 0, 1/2, 1, 3/2, 2, 5/2, 3, 7/2, 4).
- 6. This reach as extended range of counts into next generic counts range, is a takeoff from the original counts to new counts.
- 7. This take off on the geometric format of dimensional synthesis values set ups with a common value difference between constitutive dimensional orders for whole range of numbers of dimensions of same order.
- 8. This brings us face to face with a set up of a countable infinite sequence of countable finite sequences of dimensional orders synthesis.
- 9. It further bring us face to face with the phenomenon of fulfilling the grids nxn for all values of n with availability of higher dimensional order at the centre of the grid zone with the potentiality for two fold transcendence at the centre of the grid.
- 10. The phenomenon of two fold transcendence at centre of every grid zone of grid nxn for all values of n is the phenomenon of attainment of continuity smoothness not only for the boundary fold surface but also for the in-between enveloped domained with in two faced surfaces of grid zone.
- 11. One may have a pause here and to take note that with this extension and transcendence steps Vedic system success speak for itself over and above the restricted approach of 'many fold'.

LESSON-83 SYNTHESIS OF FIVE DIMENSIONS OF SAME DIMENSIONAL ORDER

- 12. The sequence of synthesis values of five dimensions of same dimensional order is:
 (... -15, -10, -5, 0, 5, 10, 15, 20 ...).
- 13. The difference value is of five counts between every pair of constitute dimensional order.
- 14. The extended range of values sequence, as has been fixed above, associate reach factor '1' for synthesis values of five dimensions.
- 15. With this pairing (5, 1) the bridging of gaps of giving counts for transition to next generic count stands attain.
- 16. It is this attainment which classifies synthesis in respect of zero to quadruple numbers of dimensions as one class and synthesis of five and more numbers of dimensions, as another class.
- 17. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of trans and to glimpse and imbibe the above features values of classification.

LESSON-84 DOMAIN SPLIT SPECTRUM OF FIVE STEPS LONG RANGE

18. Five steps long split spectrum domains is of number of entities is (1, 2, 5, 12, 29) n domain sequentially take us to two entities of (n-2) domain.

19. A step head, the reach is at five entities of (n-4) domain. www.vedicganita.org/vmcourses

- 20. A step, further ahead, reach at 12 entities of (n-6) domain.
- 21. And a step further ahead, there would be reach at 29 entities of (n-8) domain.
- 22. One may have a pause here and to take note that this way, five step long spectrum is of (n, n-2, n-4, n-6, n-8) domain.
- 23. As individual letter text of Ganita Sutras and upsutras accepts transcendental code values '1 to 16', as such for n = (1 to 16) will sequentially leads us to domain split spectrum entities range of domains range.
 - (I) N = 1 leads to (1, -1, -3, -5, -7) of summation value (-15).
 - (II) N = 2 leads to (2, 0, -2, -4, -6) of summation value -10.
 - (III) Like that, range can be reach at n = (3 to 16).