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Mathematical Number Arrangements: Visual Mathematics Series

By Kiran R. Desai Ph. D.

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 100 pages. Dimensions: 10.0in. x 8.0in. x 0.2in. This book is about constructing number arrangements in a two dimensional space. It illustrates many ways to place numbers on matrices of different shapes, so that their sum can be represented by mathematical equations. The use of color enhances the visibility of the number partitions according to the recurrence level or just the different classes. Many of the arrangements based on equations can be extended to larger size without the need to change existing number placements, resulting in a truly scalable number arrangement. The book starts with number arrangements based on least common multiples, Cartesian products, averages, and recursive product arrangements. The LCM based arrangements result in the total value for all cells of each color to be equal. The Cartesian product arrangements illustrate a way to generate a two dimensional matrix from linear number series representing any equation. So it is possible to create (135) crossed with (12345) to get a value for $f(n) = n^2 - n(n-1)/2$. The arrangements based on average are meant to generate additional matrices using simple average generation rules. The book then illustrates numerous...



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