Mathematical Recurrence Relations: 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 arranging numbers in a two dimensional space. It illustrates that it is possible to create many different regular patterns of numbers on a grid that represent meaningful summations. It uses a color coding scheme to enhance the detection of the underlying pattern for the numbers. Almost all arrangements presented are scalable or extensible, in that the matrix can be extended to larger size without the need to change existing number placements. The emphasis in this book is about the placement and summation of all the numbers for recursive embeddings. In many cases, visual charts are used to provide a higher level view of the topography, and to make the recurrence relations come alive. Number arrangements are represented for many well known multi-dimensional numbers, polygonal numbers, and various polynomials defined by recurrence relations based on equations that are a function of an integer variable n. The solutions for the recurrence relations can also be checked by adding the numbers in the arrangements presented. It is also possible to create a recurrence relation by starting with...

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