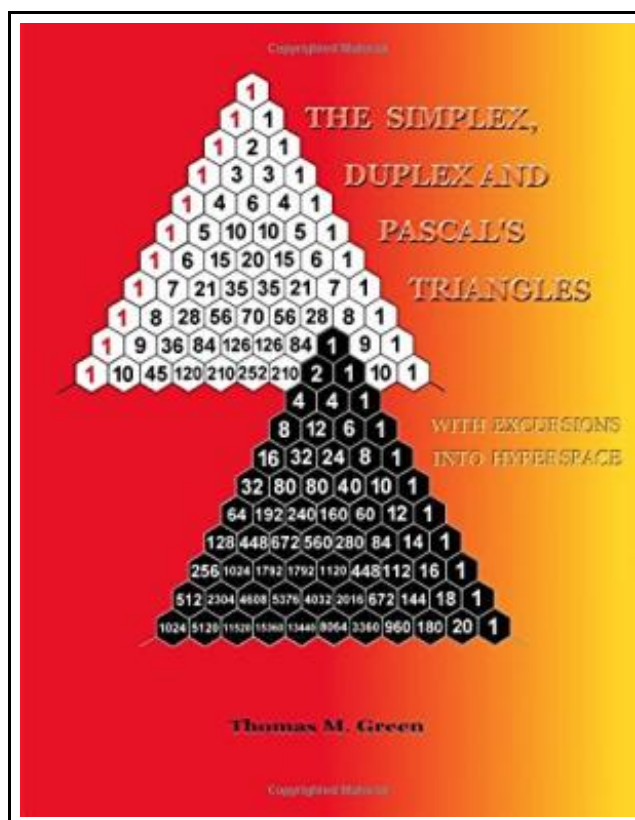


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(Lorena White)

THE SIMPLEX, DUPLEX AND PASCAL S TRIANGLES: RELATIVES OF PASCAL S TRIANGLE, WITH EXCURSIONS INTO HYPERSPACE



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Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Prepare to be intrigued by the many facets of the properties of the amazing array of numbers known as Pascal s Triangle and its many relatives. Some of the topics you will find: Polytopes Simplexes and the Simplex Triangle Tetrahedral, and higher dimensional figurate numbers Duplexes and The Duplex Triangle Geometric Duplication - Cubes and Hypercubes Vandermonde s Identity for the Duplex Triangle and the Triplex Triangle Euler s formula for Simplexes and Duplexes Recurrent Sequences in Pascal s Triangle and its Relatives Including the Fibonacci, Pell and Jacobsthal Sequences Pythagorean Triples - Related to the Sequences Listed Above Properties Involving String Products and more. There is a comprehensive index that will allow readers to easily search for topics of their interest. One goal is to provide a vehicle to the discovery of some higher mathematics related to higher dimensional geometric figures, at an entry level for the young beginning researcher by including many exercises that ask for verification of a pattern by testing specific cases and conjecturing a generalization of the pattern. Another major goal was to make available source materials for mathematics teachers to use in their classes. Included are many topics suitable for introducing students, at the pre-college level, to the sense of satisfaction one receives while exploring and discovering significant parts of advanced mathematics. I hope you will enjoy exploring this amazing Arithmetic Triangle and its relatives as much as I have. There is still much more to be discovered, of that I am certain. Teachers and students are eligible for special discounts for purchases of this book. Send an email to for information on qualifying for a discount code to use before ordering.

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