



# Mathematical Treks

*From Surreal Numbers  
to Magic Circles*

by Ivars Peterson



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# Mathematical Treks

**Tao Wei**

## **Mathematical Treks:**

Mathematical Treks: From Surreal Numbers to Magic Circles Ivars Peterson,2020-08-03      *Expeditions in Mathematics* Tatiana Shubin,David F. Hayes,Gerald L. Alexanderson,2011 This book is the second volume based on lectures for pre college students given by prominent mathematicians in the Bay Area Mathematical Adventures BAMA This book reflects the flavor of the BAMA lectures and the excitement they have generated among the high school and middle school students in the Silicon Valley The topics cover a wide range of mathematical subjects each treated by a leading proponent of the subject at levels designed to challenge and attract students whose mathematical interests are just beginning In addition the treatments given here will intrigue and enchant a more mature mathematician It is hoped that the publication of these lectures will expose students outside of the San Francisco Bay Area to interesting mathematical topics and treatments outside of their normal experience in the classroom Mathematical educators are encouraged to offer the students in their own localities similar opportunities to come into contact with exciting adventures in mathematics

**Treks into Intuitive Geometry** Jin Akiyama,Kiyoko Matsunaga,2015-12-04 This book is written in a style that uncovers the mathematical theories buried in our everyday lives such as examples from patterns that appear in nature art and traditional crafts and in mathematical mechanisms in techniques used by architects The authors believe that through dialogues between students and mathematicians readers may discover the processes by which the founders of the theories came to their various conclusions their trials errors tribulations and triumphs The goal is for readers to refine their mathematical sense of how to find good questions and how to grapple with these problems Another aim is to provide enjoyment in the process of applying mathematical rules to beautiful art and design by examples that highlight the wonders and mysteries from our daily lives To fulfill these aims this book deals with the latest unique and beautiful results in polygons and polyhedra and the dynamism of geometrical research history that can be found around us The term intuitive geometry was coined by L szlo Fejes T th to refer to the kind of geometry which in Hilbert s words can be explained to and appeal to the man on the street This book allows people to enjoy intuitive geometry informally and instinctively It does not require more than a high school level of knowledge but calls for a sense of wonder intuition and mathematical maturity

**Using the Mathematics Literature** Kristine K. Fowler,2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathemati

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**Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society, 2007  
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accept alternate but not z angles b 2 62 180 or 2 62 180 or 59 2 m1 121 a1 cao total 4 marks 4 a 1 i 0 4 0 5 2 m1 0 1 a1 also  
accept 0 1 1 b 0 4 80 or 4 0 80 n 2 m1 32 a1 cao