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Mathematics Experiments

By Shangzhi Li, etc.

World Scientific Publishing Co Pte Ltd. Paperback. Book Condition: new. BRAND NEW, Mathematics Experiments, Shangzhi Li, etc., Owing to the advent of computers, experiments are becoming an increasingly important part of mathematics. This text provides guidance to students doing experiments in mathematics. The aim is to stimulate interest in mathematics through examples and experiments. Each experiment in the book starts with a problem. The students are expected to work with these problems on computers, try to find the solutions themselves, and experience the scientific exploration in the process. The problems which the authors have chosen cover a wide spectrum in mathematics, ranging from calculus, number theory, coding and probability to geometry and chaos. The volume should be useful not only to mathematics students, but also to students in all areas of sciences who are interested in learning some of the mathematical tools. It provides a hands-on approach to the most fundamental issues in mathematics - an approach which may help to revolutionize the teaching of mathematics.



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