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Although discrete geometry has a rich history extending more than 150 years, it abounds in open problems that even a high-school student can understand and appreciate. Some of these problems are notoriously difficult and are intimately related to deep questions in other fields of mathematics. But many problems, even old ones, can be solved by a clever undergraduate or a high-school student equipped with an ingenious idea and the kinds of skills used in a mathematical olympiad.

Research Problems in Discrete Geometry is the result of a 25-year-old project initiated by the late Leo Moser. It is a collection of more than 500 attractive open problems in the field. The largely self-contained chapters provide a broad overview of discrete geometry, along with historical details and the most important partial results related to these problems. This book is intended as a source book for both professional mathematicians and graduate students who love beautiful mathematical questions, are willing to spend sleepless nights thinking about them, and who would like to get involved in mathematical research.

Important features include:

* More than 500 open problems, some old, others new and never before published;

* Each chapter divided into self-contained sections, each section ending with an extensive bibliography;

* A great selection of research problems for graduate students looking for a dissertation topic;

* A comprehensive survey of discrete geometry, highlighting the frontiers and future of research;

* More than 120 figures;

* A preface to an earlier version written by the late Paul Erdos.

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