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Space -- 1. Some Theorems from Elementary Geometry -- 2. Theorems from the Theory of Convex Bodies -- 3. Problems on Packing and Covering in the Plane -- 4. Efficiency of Packings and Coverings with a Sequence of Convex Disks -- 5. Extremal Properties of Regular Polyhedra -- 6. Irregular Packing on the Sphere -- 5. Packing in Space -- Part II. Notes and Additional Chapters to the English Edition -- 8. Notes -- 9. Finite Variations on the Isoperimetric Problem -- 10. Higher Dimensions -- 11. Ball Packings in Hyperbolic Space -- 12. Multiple Arrangements -- 13. Neighbors -- 14. Packing and Covering Properties of Sequences of Convex Bodies -- 15. Four Classic Problems -- 16. Miscellaneous Problems about Packing and Covering -- References for Part I -- References for Part II -- Name Index -- Subject Index.

Sommario/riassunto

The publication of the first edition of *Lagerungen in der Ebene, auf der Kugel und im Raum* in 1953 marked the birth of discrete geometry. Since then, the book has had a profound and lasting influence on the development of the field. It included many open problems and conjectures, often accompanied by suggestions for their resolution. A good number of new results were surveyed by László Fejes Tóth in his Notes to the 2nd edition. The present version of *Lagerungen* makes this classic monograph available in English for the first time, with updated Notes, completed by extensive surveys of the state of the art. More precisely, this book consists of: a corrected English translation of the original *Lagerungen*, the revised and updated Notes on the original text, eight self-contained chapters surveying additional topics in detail. The English edition provides a comprehensive update to an enduring classic. Combining the lucid exposition of the original text with extensive new material, it will be a valuable resource for researchers in discrete geometry for decades to come.