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   Soggetti   Combinatorial packing and covering
                    Sphere packings

   Lingua di pubblicazione   Inglese

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   Note generali   Description based upon print version of record.

   Nota di bibliografia   Includes bibliographical references and index.

   Nota di contenuto   Preface; Contents; 1. Introduction; 2. The Flory model; 3. Random
                    interval packing; 4. On the minimum of gaps generated by 1-
                    dimensional random packing; 5. Integral equation method for the 1-
                    dimensional random packing; 6. Random sequential bisection and its
                    associated binary tree; 7. The unified Kakutani Renyi model; 8. Parking
                    cars with spin but no length; 9. Random sequential packing
                    simulations; 10. Discrete cube packings in the cube; 11. Discrete cube
                    packings in the torus; 12. Continuous random cube packings in cube
                    and torus; Appendix A Combinatorial Enumeration; Bibliography; Index

   Sommario/riassunto   In this volume very simplified models are introduced to understand the
                    random sequential packing models mathematically. The 1-dimensional
                    model is sometimes called the Parking Problem, which is known by the
                    pioneering works by Flory (1939), Renyi (1958), Dvoretzky and Robbins
                    (1962). To obtain a 1-dimensional packing density, distribution of the
                    minimum of gaps, etc., the classical analysis has to be studied. The
                    packing density of the general multi-dimensional random sequential
                    packing of cubes (hypercubes) makes a well-known unsolved problem.
                    The experimental analysis is usually applied to t