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Nota di contenuto	FM -- Motivation -- Layout on a Single Row -- Layout on Several Rows -- Layout of a Single Floor -- Extensions and Related Problems -- Engineering Applications of Facility Layout -- Semidefinite Optimization and Conic Optimization -- BM.
Sommario/riassunto	This book presents a structured approach to develop mathematical optimization formulations for several variants of facility layout. The range of layout problems covered includes row layouts, floor layouts, multi-floor layouts, and dynamic layouts. The optimization techniques used to formulate the problems are primarily mixed-integer linear programming, second-order conic programming, and semidefinite programming. The book also covers important practical considerations for solving the formulations. The breadth of approaches presented help the reader to learn how to formulate a variety of problems using mathematical optimization techniques. The book also illustrates the use of layout formulations in selected engineering applications, including manufacturing, building design, automotive, and hospital layout.