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Nota di contenuto	Front matter -- Preface -- Contents -- 1. Euclidean Space -- 2. Differentiation -- 3. Manifolds -- 4. Integration on Euclidean space -- 5. Differential Forms -- 6. Manifolds as metric spaces -- 7. Hypersurfaces -- Appendix A -- Appendix B -- Index
Sommario/riassunto	This book offers an introduction to differential geometry for the non-specialist. It includes most of the required material from multivariable calculus, linear algebra, and basic analysis. An intuitive approach and a minimum of prerequisites make it a valuable companion for students of mathematics and physics. The main focus is on manifolds in Euclidean space and the metric properties they inherit from it. Among the topics discussed are curvature and how it affects the shape of space, and the generalization of the fundamental theorem of calculus known as Stokes' theorem.