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Nota di contenuto	Frontmatter -- Contents -- Introduction -- 1. Preliminaries and basic structural aspects -- 2. Local equiaffine hypersurface theory -- 3. Affine hyperspheres -- 4. Rigidity and uniqueness theorems -- 5. Variational problems and affine maximal surfaces -- 6. Hypersurfaces with constant affine Gauß-Kronecker curvature -- 7. Geometric inequalities -- A. Basic concepts from differential geometry -- B. Laplacian comparison theorem -- Bibliography -- Index -- Backmatter
Sommario/riassunto	This book draws a colorful and widespread picture of global affine hypersurface theory up to the most recent state. Moreover, the recent development revealed that affine differential geometry - as differential geometry in general - has an exciting intersection area with other fields of interest, like partial differential equations, global analysis, convex geometry and Riemann surfaces.The second edition of this monograph leads the reader from introductory concepts to recent research. Since the publication of the first edition in 1993 there appeared important new contributions, like the solutions of two different affine Bernstein conjectures, due to Chern and Calabi, respectively. Moreover, a large subclass of hyperbolic affine spheres were classified in recent years, namely the locally strongly convex Blaschke hypersurfaces that have parallel cubic form with respect to the Levi-Civita connection of the

Blaschke metric. The authors of this book present such results and new methods of proof.