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Titolo	An Invitation to Alexandrov Geometry : CAT(0) Spaces // by Stephanie Alexander, Vitali Kapovitch, Anton Petrunin
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Descrizione fisica	1 online resource (95 pages)
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Soggetti	Differential geometry Group theory Differential Geometry Group Theory and Generalizations
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Nota di contenuto	1 Preliminaries -- 2 Gluing theorem and billiards -- 3 Globalization and asphericity -- 4 Subsets -- 5 Semisolutions.
Sommario/riassunto	Aimed toward graduate students and research mathematicians, with minimal prerequisites this book provides a fresh take on Alexandrov geometry and explains the importance of CAT(0) geometry in geometric group theory. Beginning with an overview of fundamentals, definitions, and conventions, this book quickly moves forward to discuss the Reshetnyak gluing theorem and applies it to the billiards problems. The Hadamard–Cartan globalization theorem is explored and applied to construct exotic aspherical manifolds.