

1. Record Nr.	UNINA9911064904503321
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Titolo	Geometric Inequalities and Applications // edited by Bang-Yen Chen, Majid Ali Choudhary
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
ISBN	981-9551-48-X
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (582 pages)
Collana	Infosys Science Foundation Series in Mathematical Sciences, , 2364-4044
Disciplina	516.36
Soggetti	Geometry, Differential Differential Geometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 Some inequalities for geometric solitons -- Chapter 2 Generalized Ricci-Yamabe Soliton On 3-Dimensional Lie Groups -- Chapter 3 Riemannian Invariants in Submanifold Theory -- Chapter 4 Chen Inequalities for Submanifolds of Kenmotsu Space Forms -- Chapter 5 IMPROVED CHEN-RICCI INEQUALITIES FOR SEMI-SLANT RIEMANNIAN SUBMERSIONS FROM SASAKIAN SPACE FORMS -- Chapter 6 CHARACTERIZATIONS OF PERFECT FLUID AND GENERALIZED ROBERTSON-WALKER SPACE-TIMES ADMITTING $k$ ALMOST RICCI-YAMABE SOLITONS -- Chapter 7 RIEMANNIAN CONCURCULAR STRUCTURE MANIFOLDS AND SOLITONS -- Chapter 8 STATISTICAL MAPS AND A CHEN'S FIRST INEQUALITY FOR THESE MAPS -- Chapter 9 Hyperbolic Ricci-Yamabe Solitons and -Hyperbolic Ricci-Yamabe Solitons -- Chapter 10 A survey on Hitchin–Thorpe inequality and its extensions -- Chapter 11 The principal eigenvalue of a $(p,q)$ -biharmonic system along the Ricci flow -- Chapter 12 The Jacobi geometry of plane parametrized curves and associated inequalities -- Chapter 13 B.-Y. Chen inequalities for submanifolds of conformally flat manifolds -- Chapter 14 General Chen Inequalities for Statistical Submanifolds in Kenmotsu Statistical Manifolds of Constant - Sectional Curvature -- Chapter 15 B. Y. Chen inequalities for pointwise quasi hemi-slant submanifolds of a Kaehler manifold.
Sommario/riassunto	This contributed volume includes chapters written by leading experts

from around the world and provides a thorough and up-to-date exploration of geometric inequalities and their far-reaching applications. Covering a broad spectrum of topics, it discusses the intricacies of geometric solitons, generalized Ricci–Yamabe solitons on three-dimensional Lie groups, and Riemannian invariants in submanifold theory. Readers will find in-depth discussions on B.Y. Chen inequalities for submanifolds of Kenmotsu space forms, refined Chen–Ricci inequalities for submersions from Sasakian space forms, and essential characterizations of perfect fluid and generalized Robertson–Walker space-times admitting  $k$ -almost Ricci–Yamabe solitons. The book also investigates Riemannian concircular structure manifolds, statistical maps and their inequalities, as well as hyperbolic and  $-$ hyperbolic Ricci–Yamabe solitons.

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