1. Record Nr. UNINA9910824010003321

Autore	Brozos-Vazquez Miguel
Titolo	Geometric realizations of curvature / / Miguel Brozos Vazquez, Peter B. Gilkey, Stana Nikcevic
Pubbl/distr/stampa	London, : Imperial College Press, 2012
ISBN	1-280-66899-7 9786613645920 1-84816-742-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (263 p.)
Collana	ICP advanced texts in mathematics, , 1753-657X ; ; v. 6
Altri autori (Persone)	GilkeyPeter B NikcevicStana
Disciplina	516
Soggetti	Curvature Geometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; Contents; 1. Introduction and Statement of Results; 1.1 Notational Conventions; 1.2 Representation Theory; 1.3 Affine Structures; 1.4 Mixed Structures; 1.5 Affine Kahler Structures; 1.6 Riemannian Structures; 1.7 Weyl Geometry I; 1.8 Almost Pseudo-Hermitian Geometry; 1.9 The Gray Identity; 1.10 Kahler Geometry in the Riemannian Setting I; 1.11 Curvature Kahler-Weyl Geometry; 1.12 The Covariant Derivative of the Kahler Form I; 1.13 Hyper-Hermitian Geometry; 2. Representation Theory; 2.1 Modules for a Group G; 2.2 Quadratic Invariants; 2.3 Weyl's Theory of Invariants 2.4 Some Orthogonal Modules2.5 Some Unitary Modules; 2.6 Compact Lie Groups; 3. Connections, Curvature, and Differential Geometry; 3.1 Affine Connections; 3.2 Equiaffine Connections; 3.3 The Levi-Civita Connection; 3.4 Complex Geometry; 3.5 The Gray Identity; 3.6 Kahler Geometry in the Riemannian Setting II; 4. Real Affine Geometry; 4.1 Decomposition of and as Orthogonal Modules; 4.2 The Modules R, S2 0 , and 2 in; 4.3 The Modules WO6 , WO7 , and WO8 in; 4.4 Decomposition of as a General Linear Module; 4.5 Geometric Realizability of Affine Curvature Operators 4.6 Decomposition of as an Orthogonal Module5. Affine Kahler

Sommario/riassunto

A central area of study in Differential Geometry is the examination of the relationship between the purely algebraic properties of the Riemann curvature tensor and the underlying geometric properties of the manifold. In this book, the findings of numerous investigations in this field of study are reviewed and presented in a clear, coherent form, including the latest developments and proofs. Even though many authors have worked in this area in recent years, many fundamental questions still remain unanswered. Many studies begin by first working purely algebraically and then later progressing ont