

The Submanifold Geometries associated to Grassmannian Systems

Martina Brück, Xi Du, Joonsung Park, and Chao-Lian Terng*

Abstract

There is a hierarchy of commuting soliton equations associated to each symmetric space U/K . When U/K has rank n , the first n flows in the hierarchy give rise to a natural first order non-linear system of partial differential equations in n variables, the so called U/K -system. Let $G_{m,n}$ denote the Grassmannian of n -dimensional linear subspaces in R^{m+n} , and $G_{m,n}^1$ the Grassmannian of space-like m -dimensional linear subspaces in the Lorentzian space $R^{m+n,1}$. In this paper, we use techniques from soliton theory to study submanifolds in space forms whose Gauss-Codazzi equations are gauge equivalent to the $G_{m,n}$ -system or the $G_{m,n}^1$ -system. These include submanifolds with constant sectional curvatures, isothermic surfaces, and submanifolds admitting principal curvature coordinates. The dressing actions of simple elements on the space of solutions of the $G_{m,n}$ and $G_{m,n}^1$ systems correspond to Bäcklund, Darboux and Ribaucour transformations for submanifolds.

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Submanifold Geometries Associated To Grassmannian Systems

Ying-Ying Zheng



Submanifold Geometries Associated To Grassmannian Systems:

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Submanifold Geometries Associated To Grassmannian Systems**

In some sort of inundated with displays and the cacophony of quick conversation, the profound power and psychological resonance of verbal artistry usually diminish into obscurity, eclipsed by the constant assault of noise and distractions. Yet, situated within the lyrical pages of **Submanifold Geometries Associated To Grassmannian Systems**, a captivating function of fictional splendor that impulses with raw feelings, lies an unique journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this interesting opus books visitors on a psychological odyssey, lightly exposing the latent potential and profound influence embedded within the elaborate web of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is central themes, dissect their fascinating publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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