Publicationes Mathematicae Debrecen Year: 2023

Vol.: 103

Fasc.: 1-2

Title: Codazzi type h-operators on real hypersurfaces in nonflat complex space forms Author(s): Yaning Wang and Yingdong Zhang

In this paper, we prove that if the operator h of a real hypersurface M in a nonflat complex space form $\widetilde{M}_n(c)$, $n \geq 2$, is of Codazzi type, then M is a Hopf hypersurface. We also prove that such a Hopf hypersurface is locally congruent to a real hypersurface of type (A).

Address:

Yaning Wang School of Mathematics and Information Science Henan Normal University Xinxiang 453007, Henan P. R. China

Address:

Yingdong Zhang School of Mathematics and Information Science Henan Normal University Xinxiang 453007, Henan P. R. China