

论文

$\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{PREINVEX TYPE MAPPINGS}$

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摘要 In this paper, such new definitions as $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$, strictly

$\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$ and explicitly $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$ for vector-valued mappings

are firstly introduced. Then, a sufficient condition of $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvex}$ mappings is

shown. And then the relationship between the explicitly $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$ and the

strictly $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$ is discussed. Finally, some properties of

$\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvex}$ type mappings are given.

关键词 [\$\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}\$](#) , [explicitly \$\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\$](#)

分类号

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Abstract In this paper, such new definitions as $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$, strictly $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$ and explicitly $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$ for vector-valued mappings are firstly introduced. Then, a sufficient condition of $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvex}$ mappings is shown. And then the relationship between the explicitly $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$ and the strictly $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}$ is discussed. Finally, some properties of $\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvex}$ type mappings are given.

Key words [\$\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}\$](#) [explicitly \$\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}\$](#) [relationship](#) [strictly \$\mathcal{D}\mathcal{S}\text{-}\mathcal{B}\mathcal{S}\text{-}\text{preinvexity}\$](#)

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