DIFFERENCE SEQUENCE SPACES DERIVED BY GENERALIZED WEIGHTED MEAN

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In this talk, our purpose is to introduce new sequence spaces by combining the generalized weighted mean and difference operator. Because of we use the matrix domain in this study, our new sequence spaces include some of the works in the literature. Our talk consist of three sections. In the fist section, we will give some topological properties which are completeness, AK-property, AD-property. In the second section, we show how to compute the $\alpha-, \beta-, \gamma-$ duals and bases of these spaces. In the final section of this talk, we will give the necessary and sufficient conditions on an infinite matrix belonging to the classes $(c(u, v, \Delta) : \ell_\infty)$ and $(c(u, v, \Delta) : c)$.