Hybrid numbers are a ring of numbers that unify the field of the complex number $\mathbb{C}$ and, the rings of hyperbolic numbers ($\mathbb{H} = \{a + hb : h^2 = 1\}$) and dual numbers ($\mathbb{D} = \{a + \varepsilon b : \varepsilon^2 = 0\}$). In this study, hybrid numbers and some algebraic properties will be introduced briefly and some linear algebra applications will be given by the help of ring homomorphism between hybrid numbers and $2 \times 2$ matrices.

References