Abstract

We present in this paper new results concerning positive solution for the fourth order four-point weighted p(t)-Laplacian like boundary value problem where $\mathbb{R}^+ = [0,+\infty)$, $\varphi(t,x) = |x|^{p(t)-2}x$, $\alpha \in [0,1[$, $\eta\ \gamma \in (0,1)$, $\beta \geq 0$, $p \in C([0,1], (1,+\infty))$, $f \in C([0,1] \times \mathbb{R}^+, \mathbb{R}^+)$, $a \in C((0,1), (0,+\infty))$, and $b: (0,1) \rightarrow \mathbb{R}^+$ is a measurable function such that $b(t) \geq 0$ for a.e. $t \in (0,1)$ and b is positive in a subset of a positive measure