A common fixed point theorem using EA-property for four weakly compatible maps is obtained in the setting of G-metric spaces without exploiting the notion of continuity. Our results generalize the results of Abbas and Rhoades[7], and Manro et. al. [11]. Moreover, we show that these maps satisfy property R. Applications to certain integral equations and functional equations are also obtained.

References

- Jeong, G. S. and Rhoades, B. E., Maps for which F(T) = F(Tn), Fixed point theory and applications, vol. 6, (2004), 71-105.

**Index Terms**

Computer Science Applied Mathematics

**Keywords**

Common Fixed Point G-Metric Spaces F-maps Weakly Compatible Maps E. A. Property Property R