

[Asaduzzaman, M.](#); [Ali, M. Zulfikar](#); [Khatun, M. Saleha](#)

**On some fixed point problems of non-expansive mapping and shrinking mapping.** (English)

Zbl 1314.47068

JP J. Fixed Point Theory Appl. 9, No. 2, 67-85 (2014).

Summary: *D. R. Smart* in his book [Fixed point theorems. London: Cambridge University Press (1974; Zbl 0297.47042)]' raised some problems to describing the fixed point properties of non-expansive mapping and shrinking mapping. In this paper, we have introduced and solved these fixed point problems connecting to non-expansive mapping and shrinking mapping. Here we have also introduced and solved two other fixed point problems of non-expansive mapping where the mapping is defined on the Hilbert space.

**MSC:**

47H09 Contraction-type mappings, nonexpansive mappings,  $A$ -proper mappings, etc.

47H10 Fixed-point theorems

**Keywords:**

fixed point; contraction mapping; non-expansive mapping; shrinking mapping

**Full Text:** [Link](#)