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Fixed Point Theory and its Applications to Real World Problems

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Chapter 16

**STRONG COUPLED FIXED POINTS OF
KANNAN TYPE AND REICH TYPE CYCLIC
COUPLED MAPPINGS IN S -METRIC SPACES**

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Abstract

In this paper, we introduce Kannan type and Reich type cyclic coupled mappings in S -metric spaces and prove the existence and uniqueness of strong coupled fixed points of such mappings in complete S -metric spaces. Examples are provided to illustrate our results.

Keywords: cyclic mapping, coupled fixed point, strong coupled fixed point, Kannan type cyclic coupled mapping, Reich type cyclic coupled mapping

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