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ONE–DIMENSIONAL ATTRACTOR FOR A NON–AUTONOMOUS STRONGLY DAMPED LATTICE SYSTEM WITH PERIODIC DRIVING FORCE

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Abstract. In this paper, we consider one-dimensional attractor of a non-autonomous second order strongly damped lattice system with periodic driving force under Neumann boundary condition or periodic boundary condition. We obtain the existence of a global attractor and prove this attractor is homeomorphic to the circle.

Mathematics subject classification (2010): 35B40, 35B41.
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