

## THE GLOBAL ATTRACTOR FOR THE HIGHER-ORDER COUPLED KIRCHHOFF –TYPE EQUATIONS WITH NONLINEAR STRONG DAMPEND AND SOURCE TERMS

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### ABSTRACT

In this paper, we investigate the global well-posedness and the longtime behavior of the solution for a class of generalized Higher-order coupled kirchhoff–type equations with nonlinear strongly damping and source terms. At first, under the proper assumptions, the existence and uniqueness of solution are demonstrated by using priori estimate and Galerkin method. Then, the existence of the global attractor is acquired by applying some of the attractor theorems.

**Keywords:** Higher-order coupled kirchhoff equations, The existence and uniqueness, Galerkin method, The Global attractor.

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