1051-39-160 Rajendra Dahal\* (rdahal@coastal.edu), Departement of Mathematics and Statistics, Coastal Carolina University, P.O. Box 261954, Conway, SC 29528. Existence of positive solutions of semipositone dynamic boundary value problems.

## abstract

In this talk, using well known fixed points theorem, I will show the existence of positive solutions for the following second-order singular semipositone boundary value problem:

 $-x^{\Delta\nabla} = f(t, x) + g(t, x), \qquad t \in (\rho(a), \sigma(b))$  $x(\rho(a)) = 0 = x(\sigma(b)),$ 

where  $f(t, x) \ge 0$ , and g may change sign. (Received August 24, 2009)