

## ON FIRST ORDER DIFFERENTIAL INCLUSIONS WITH PERIODIC BOUNDARY CONDITIONS

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*Abstract.* In this paper a fixed point theorem for condensing maps combined with upper and lower solutions are used to investigate the existence of solutions for first order differential inclusions with periodic boundary conditions.

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*Key words and phrases:* Periodic boundary value problem, convex multivalued map, condensing map, fixed point, truncation map, upper and lower solutions.

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