

A SCHECHTER-TYPE CRITICAL POINT RESULT
FOR LOCALLY LIPSCHITZ FUNCTIONS

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Abstract. Based on the variational principle of Ekeland, we prove a Schechter-type critical point existence theorem for locally Lipschitz functions defined on a ball of a Hilbert space. As application we give an existence result for a differential inclusion problem.

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Key words. Variational principle, critical point, locally Lipschitz functions, Palais-Smale condition.

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