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Existence of solutions of perturbed O.D.E.'s in Banach spaces

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Abstract: We consider a perturbed Cauchy problem like the following

$$(PCP)\{ x' = A(t, x) + B(t, x)x(0) = x_0$$

and we present two results showing that (PCP) has a solution. In some cases, our theorems are more general than the previous ones obtained by other authors (see [4], [8], [9], [11], [13], [17], [18]).

Keywords: perturbed Cauchy problem, semi-inner product, measure of noncompactness

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