Periodic solutions of evolution equations

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Abstract: Consider the following evolution equations without delay or with finite or infinite delay in a general Banach space X, u?(t) + A(t)u(t) = f(t,u(t)), t > 0, u?(t) + A(t)u(t) = f(t,u(t),u_t), t > 0. We will analyze some fixed point theorems and then see how they can be applied to derive periodic solutions for the above mentioned equations.

Author Keywords: And Hale and Lunel's Fixed Point Theorems; Bounded and Periodic Solutions; Condensing Operators; Finite and Infinite Delays; Horn's; Sadovskii's

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