**Freedman, M. A.**
**A method for reparameterizing mild solutions to nonlinear evolution equations.** (English)
Zbl 0694.35081

Existence of solutions of evolution differential equation $u'(t) + A(t)u(t) \ni 0$, $u(0) = x_0$ where $A(t)$ is a multivalued m- accretive operator in a Banach space $X$ is discussed in the case when a solution to $v'(t) + B(t)v(t) \ni 0$, $v(0) = x_0$ is known to exist and $A$ and $B$ are related by $A(t) = r(t)B(t)$ with $r(t)$ positive and integrable.

Reviewer: S.Tersian

**MSC:**

| | |
|---|---|
| 35G10 | Initial value problems for linear higher-order PDEs |
| 35K25 | Higher-order parabolic equations |
| 34G99 | Differential equations in abstract spaces |
| 35K55 | Nonlinear parabolic equations |

**Keywords:**

mild solutions; m-accretive operator

**Full Text:** DOI

**References:**

[1] Crandall, M.G; Evans, L.C, On the relation of the operator $⊠⊠s + ⊠⊠τ$ to evolution governed by accretive operators, Israel J. math., 21, 261-278, (1975) · Zbl 0351.34037

[2] Crandall, M.G; Pazy, A, Nonlinear evolution equations in Banach spaces, Israel J. math., 11, 57-94, (1972) · Zbl 0249.34049

[3] Craven, B, Lebesgue measure and integral, (1982), Pitman MA · Zbl 0491.28001

[4] Evans, L.C, Nonlinear evolution equations in an arbitrary Banach space, Israel J. math., 26, 1-42, (1977) · Zbl 0349.34043

[5] {\scM. A. Freedman}, Further investigation of the relation of the operator $⊠⊠σ + ⊠⊠τ$ to evolution governed by accretive operators, \textit{Houston J. Math.}, to appear. · Zbl 0811.35172