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Abstract The evolution problem $0 \in \frac{du}{dt} + A(t)u(t)$, $u(s) = x$, where the $A(t)$ are nonlinear operators acting in a Banach space, is studied. Evolution operators are constructed from the $A(t)$ under various assumptions. Basic properties of these evolution operators are established and their relationship to the evolution equation is determined.

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L. Nirenberg, Topics in Nonlinear Functional Analysis, Courant Institute Lecture Notes, AMS, 2001. R.E. Showalter, Monotone operators in Banach spaces and nonlinear partial differential equations, Mathematical Surveys and Monographs, vol. 49, AMS, 1997.

Fixed Point Methods for Nonlinear PDE

The techniques developed for nonlinear evolutions in real Banach spaces are applied in this book. This book will benefit graduate students and researchers working in such diverse fields as mathematics, physics, biochemistry, and sociology who are interested in the development and application of nonlinear functional evolutions.

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