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1 Infinite-dimensional dynamical systems. 1.1 Semigroups Our abstract 'infinite-dimensional dynamical systems' are semigroups defined on Banach spaces; more usually Hilbert spaces. Given a Banach space B , a semigroup on B is a family $\{S(t) : t \geq 0\}$ of mappings from B into itself with the properties: $S(0) = \text{id}$.

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space can also be infinite-dimensional. The time evolution rule

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Introduction: The dynamical systems approach to evolution equations

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and the Navier-Stokes equations, two examples that are treated in ...

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