


[DOWNLOAD](#)

[READ ONLINE](#)  
 [ 5.81 MB ]

## Evolution Equations and Applications : A semigroup approach

By Patrice Ndambomve

LAP Lambert Academic Publishing Aug 2012, 2012. Taschenbuch. Condition: Neu. This item is printed on demand - Print on Demand Neuware - In this book, we present the fundamental theory of abstract Evolution Equations by using the semigroup approach. More precisely, first we review the basic notions of Functional Analysis and Differential Analysis, secondly we study the theory of semigroups of bounded linear operators, and thirdly we consider Linear Evolution Equations and moreover we give existence results for Semilinear Evolution Equations of the form:  $du/dt = Au + f(t; u); t \geq 0; u(0) = u_0$  where  $A$  is a linear operator that is the infinitesimal generator of a  $C_0$ -semigroup of bounded linear operators on a Banach space and  $f$  satisfies certain Lipschitz, and Linear growth conditions. As applications we show the existence of solutions to some Homogeneous Heat Equations, classical Wave equations, nonlinear Heat Equation, and to some nonlinear Wave equation. 100 pp. Englisch.

### Reviews

*This is actually the greatest pdf i have got go through until now. Indeed, it can be perform, nevertheless an amazing and interesting literature. Its been designed in an extremely simple way and is particularly only following i finished reading this ebook where really modified me, affect the way in my opinion.*

-- Jacey Simonis

*This ebook is indeed gripping and fascinating. it had been writtern really properly and helpful. I am very easily could possibly get a satisfaction of reading a published publication.*

-- Maude Ritchie